

Table D-D-1
Nitrogen Oxides (NO_x) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	Black Start and Emergency Internal Combustion Engines	Diesel	1500	kWe	Two (2) 600 kWe black start diesel generators and four (4) 1,500 kWe emergency diesel generators.	Good Combustion Practices	8	G/KW-HR	3-HOUR AVERAGE	0			0		
IN-0263	MIDWEST FERTILIZER COMPANY LLC	3/23/2017	EMERGENCY GENERATORS (EU014A AND EU-014B)	DISTILLATE OIL	3600	HP EACH		GOOD COMBUSTION PRACTICES	4.42	G/HP-H EACH	3 HOUR AVERAGE	500	H/YR EACH		0		
LA-0292	HOLBROOK COMPRESSOR STATION	1/22/2016	Emergency Generators No. 1 & No. 2	Diesel	1341	HP		Good equipment design, proper combustion techniques, use of low sulfur fuel, and compliance with 40 CFR 60 Subpart IIII	14.16	LB/HR	HOURLY MAXIMUM	0.71	TPY	ANNUAL MAXIMUM	4.8	G/BHP-HR	
LA-0305	LAKE CHARLES METHANOL FACILITY	6/30/2016	Diesel Engines (Emergency)	Diesel	4023	hp		Complying with 40 CFR 60 Subpart IIII	0			0			0		
*LA-0312	ST. JAMES METHANOL PLANT	6/30/2017	DEG1-13 - Diesel Fired Emergency Generator Engine (EQT0012)	Diesel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII	19.23	LB/HR		0			0		
LA-0313	ST. CHARLES POWER STATION	8/31/2016	SCPS Emergency Diesel Generator 1	Diesel	2584	HP		Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel).	27.34	LB/H	HOURLY MAXIMUM	6.84	T/YR	ANNUAL MAXIMUM	4.8	G/BHP-HR	
LA-0316	CAMERON LNG FACILITY	2/17/2017	emergency generator engines (6 units)	diesel	3353	hp		Complying with 40 CFR 60 Subpart IIII	0			0			0		
LA-0317	METHANEX - GEISMAR METHANOL PLANT	12/22/2016	Emergency Generator Engines (4 units)	Diesel	0		I-GDE-1201, II-GDE-1201 = 2346 hp I-GDE-1202 = 755 hp I-GDE-1203 = 1193 hp	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	0			0			0		
MI-0421	GRAYLING PARTICLEBOARD	8/26/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in FGRICE).	Certified engines, limited operating hours.	22.6	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME	0			0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUEMENGINE (Diesel fuel emergency engine)	Diesel Fuel	22.68	MMBTU/H	a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted to 4 hours/day, except during emergency conditions and stack testing, and 500 hours/year on a 12-month rolling time period basis.	Good combustion practices and meeting NSPS IIII requirements.	6.4	G/KW-H	TEST PROTOCOL WILL SPECIFY AVG TIME	0			0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUPFENGINE (Emergency engine--diesel fire pump)	Diesel	1.66	MMBTU/H	A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Powers a fire pump used for a back up during an emergency (EUPFENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100 hours/year on a 12-month rolling time period basis.	Good combustion practices and meeting NSPS Subpart IIII requirements.	3	G/BHP-H	TEST PROTOCOL WILL SPECIFY AVG TIME	0			0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	EUEMRGRICE1 in FGRICE (Emergency diesel generator engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE1 in FGRICE).	Certified engines, limited operating hours.	21.2	LB/H	TEST PROTOCOL SHALL SPECIFY	0			0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	EUEMRGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE2 in FGRICE).	Certified engines, limited operating hours	4.4	LB/H	TEST PROTOCOL SHALL SPECIFY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (North Plant); Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (KW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Good combustion practices and meeting NSPS Subpart IIII requirements.	6.4	G/KW-H	HOURLY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (South Plant); Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Good combustion practices and meeting NSPS IIII requirements.	6.4	G/KW-H	HOURLY	0			0		
*MI-0434	FLAT ROCK ASSEMBLY PLANT	3/22/2018	EULIFESAFETYENG - One diesel-fueled emergency engine/generator	Diesel	500	KW	EULIFESAFETYENG - One (1) diesel-fueled emergency engine/generator rated at 500 KW. No add-on control.	Good combustion practices.	4	G/KW-H	HOURLY; NMHC+NOX	8.47	LB/H	HOURLY; NOX	0		
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	EUEMENGINE: Emergency engine	Diesel	2	MW	A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to NSPS IIII.	State of the art combustion design.	6.4	G/KW-H	HOURLY	0			0		
WV-0027	INWOOD	9/15/2017	Emergency Generator - ESDG14	ULSD	900	bhp	Used to supply power to the facility in the event of power loss	Engine Design	4.77	G/HP-HR		0			0		
AK-0071	INTERNATIONAL STATION POWER PLANT	12/20/2010	Caterpillar 3215C Black Start Generator (1)	ULSD	1500	KW-e		Turbocharger and Aftercooler	6.4	G/KW-H	INSTANTANEOUS	0			0		

Table D-D-1
Nitrogen Oxides (NO_x) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCD	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
AK-0073	INTERNATIONAL STATION POWER PLANT	12/20/2010	Fuel Combustion	Diesel	1500	kW-c	EU 13 Black Start Engine	Black Start diesel fired engine EU 13 shall be equipped with turbo charging and after cooling. The turbo charger reduces NOx emissions by boosting the pressure and temperature of the air entering the engine allowing more fuel to be added to increase power output. This translates into higher combustion efficiency and reduced emissions.	6.4	G/KW-H		0			0		
AK-0076	THOMSON PRODUCTION FACILITY	8/20/2012	Combustion of Diesel by ICEs	ULSD	1750	kW	Diesel-fired generators		6.4	G/KW-H		0			0		
*AK-0082	THOMSON PRODUCTION FACILITY	1/23/2015	Emergency Camp Generators	Ultra Low Sulfur Diesel	2695	hp	Three 2,695 hp ULSD-fired Standby Camp Generator Engines.		4.8	G/HP-H		0			0		
*AK-0082	THOMSON PRODUCTION FACILITY	1/23/2015	Airstrip Generator Engine	Ultra Low Sulfur Diesel	490	hp	One 490 hp Airstrip Generator Engine		4.8	G/HP-H		0			0		
*AK-0082	THOMSON PRODUCTION FACILITY	1/23/2015	Bulk Tank Generator Engines	Ultra Low Sulfur Diesel	891	hp	Two ULSD-fired 891 hp Bulk Tank Storage Area Generator Engines		4.8	G/HP-H		0			0		
AL-0251	HILLABEE ENERGY CENTER	9/24/2008	EMERGENCY GENERATOR	DIESEL	600	EW		GOOD COMBUSTION PRACTICES	0			0			0		
*AL-0301	NUCOR STEEL TUSCALOOSA, INC.	7/22/2014	DIESEL FIRED EMERGENCY GENERATOR	DIESEL	800	HP			0.015	LB/HP-H		0			0		
AZ-0046	ARIZONA CLEAN FUELS YUMA	4/14/2005	EMERGENCY GENERATOR	NO. 2 DIESEL FUEL	10.9	MMBTU/H	EQUIPMENT IDENTIFIED BY ID # S-29100		6.4	G/KW-H		0			0		NOT AVAILABLE
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	3/11/2010	EMERGENCY ENGINE	DIESEL	2000	KW	2000 KW (2,683 hp) engine	OPERATIONAL RESTRICTION OF 50 HR/YR	6	G/KW-H		4.5	G/HP-H		0		
CA-1212	PALMDALE HYBRID POWER PROJECT	10/18/2011	EMERGENCY IC ENGINE	DIESEL	2683	HP	UNIT IS 2000 KW.		6.4	G/KW-H	3-HR AVG	4.8	G/HP-H	3-HR AVG	0		
CA-1213	MOUNTAINVIEW W POWER COMPANY LLC	4/21/2006	EMERGENCY FIRE IC ENGINE	DIESEL	375	BHP			0			0			0		
CA-1213	MOUNTAINVIEW W POWER COMPANY LLC	4/21/2006	EMERGENCY POWER IC ENGINE	DIESEL	2155	BHP			0			0			0		
*CA-1220	SAN DIEGO INTERNATIONAL AIRPORT	10/3/2011	ICE:Emergency-Compression Ignition	diesel	1881	BHP	Mitsubishi S12R-Y2PTAW-1	Tier 2 certified and 50 hr/y M&T limit	3.9	G/HP-H		0			0		
*CA-1221	PACIFIC BELL	12/5/2011	ICE:Emergency-Compression Ignition	diesel	3634	bhp		Tier 2 certified and 50 hr/yr for M&T limit	3.5	G/HP-H		0			0		
FL-0310	SHADY HILLS GENERATING STATION	1/12/2009	2.5 MW EMERGENCY GENERATOR	ULTRA LOW S OIL	2.5	MW	MAXIMUM HOURS OF OPERATION: 500 HRS/YR	PURCHASE MODEL IS AT LEAST AS STRINGENT AS THE BACT VALUES, UNDER EPA CERTIFICATION.	6.9	G/HP-H	3 ONE HOUR TEST	0			0		
FL-0322	SWEET SORGHUM-TO-ETHANOL ADVANCED BIOREFINERY	12/23/2010	Emergency Generators, Two	ULSD	0		Two emergency generators, each rated at 2,000 kW, will be installed to provide backup electrical power in the event of a power outage at the SRF facility. The engines will fire ULSD fuel oil or propane and each will be limited to 500 hours per year of operation during emergencies. Each unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. Each engine will be designed to meet USEPA's emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2006 or later.		6.4	G/KW-H		0			0		
FL-0327	ANADARKO - PHOENIX PROSPECT	6/13/2011	Emergency Engine	Diesel	0		WÄrtilÄr 6R32LNE	Limited use of 24 hours/week and recordkeeping of operation.	9.4	T/YR		0			0		
*FL-0328	ENI - HOLY CROSS DRILLING PROJECT	10/27/2011	Emergency Engine	Diesel	580	HP	MAN D-2842 LE model engine	Use of good combustion practices, based on the current manufacturer's specifications for this engine	0.4	T/YR	12-MONTH ROLLING	12.51	G/HP-H		0		
FL-0332	HIGHLANDS BIOREFINERY AND COGENERATION PLANT	9/23/2011	2000 KW Emergency Equipment		0		One emergency generator rated at 2,000 kW (2,682 HP) will be installed to provide backup electrical power in the event of a power outage at the HEF facility. The generator will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation during emergencies. The unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPA's emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2006 or later.	See Pollutant Notes.	6.4	G/KW-H		0			0		
FL-0332	HIGHLANDS BIOREFINERY AND COGENERATION PLANT	9/23/2011	600 HP Emergency Equipment	Ultra-Low Sulfur Oil	0		One 600 hp diesel fire pump engine will be installed to provide firewater during power outages. This unit will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation. This unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPA's emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2009 or later.	See Pollutant Notes.	3	G/HP-H		0			0		

Table D-D-1
Nitrogen Oxides (NO_x) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCD	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - Development Driller 1	Diesel	2229	hp		Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	1.6	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - C.R. Luigs	diesel	2064	hp	Caterpillar D3516A 1998	Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	1.49	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Main Propulsion Generator Diesel Engines	Diesel	9910	hp	Four 1998 Wartsila 18V32LNE 9910 hp and Two 1998 Wartsila 12V32LNE 6610 hp	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	12.7	G/KW-H	ROLLING 24 HOUR AVERAGE	0			0		
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Emergency Diesel Engine	Diesel	3300	hp	1998 Wartsila 6R32LNE	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0			0			0		
IA-0088	ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	EMERGENCY GENERATOR	DIESEL	1500	KW	THREE 1,500 KW EMERGENCY GENERATORS ARE BEING INSTALLED AS A PART OF THIS PROJECT. PERMITS 07-A-542-P, 07-A-576-P AND 07-A-577-P. THE PROJECT ALSO INCLUDES THE INSTALLATION OF ONE 2,000 KW EMERGENCY GENERATOR. PERMIT 07-A-578-P. ALL FOUR EMERGENCY GENERATORS HAVE THE SAME SHORT TERM BACT LIMITS AND DIFFERENT TON/YR BACT LIMITS.	NO SPECIFIC CONTROL TECHNOLOGY IS SPECIFIED. ENGINE IS REQUIRED TO MEET LIMITS ESTABLISHED AS BACT (TIER 2 NONROAD). THIS COULD REQUIRE ANY NUMBER OF CONTROL TECHNOLOGIES AND OPERATIONAL REQ. TO MEET THE BACT STANDARD.	4.5	G/HP-H	AVERAGE OF 3 TEST RUNS	5.29	T/YR	12-MONTH ROLLING TOTAL	0		
IA-0095	TATE & LYLE INGREDIENTS AMERICAS, INC.	9/19/2008	EMERGENCY GENERATOR	DIESEL	700	KW			6.2	G/KW-H	AVERAGE OF THREE STACK TEST RUNS	2.39	T/YR	12-MONTH ROLLING AVERAGE	0		
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012	Emergency Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	6	G/KW-H	AVERAGE OF 3 STACK TEST RUNS	6.61	TONS/YR	ROLLING 12 MONTH TOTAL	0		
ID-0017	POWER COUNTY ADVANCED ENERGY CENTER	2/10/2009	2 MW EMERGENCY GENERATOR, SRC25	ASTM #1, 2, DIESEL	2000	KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	GOOD COMBUSTION PRACTICES. EPA CERTIFIED PER NSPS IIII	0			0			0		
ID-0017	POWER COUNTY ADVANCED ENERGY CENTER	2/10/2009	500 KW EMERGENCY GENERATOR, FIRE PUMP, SRC26	ASTM #1, 2, DIESEL	500	KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	GOOD COMBUSTION PRACTICES. EPA CERTIFICATION PER NSPS IIII. TIER 2 ENGINE-BASED.	0		SEE NOTE	0			0		
ID-0018	LANGLEY GULCH POWER PLANT	6/25/2010	EMERGENCY ENGINE	DIESEL	750	KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CI ICE)	GOOD COMBUSTION PRACTICES (GCP)	6.4	G/KW-H	NOX-NMHC	0			0		
*IL-0114	CRONUS CHEMICALS, LLC	9/5/2014	Emergency Generator	distillate fuel oil	3755	HP		Tier IV standards for non-road engines at 40 CFR 1039.102, Table 7.	0.67	G/KW-H		0			0		
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	12/3/2012	TWO (2) EMERGENCY DIESEL GENERATORS	DIESEL	1006	HP EACH	THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND EG02, EXHAUST THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	4.8	G/HP-H	3 HOURS	500	HOURS OF OPERATION	YEARLY	0		
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	12/3/2012	EMERGENCY DIESEL GENERATOR TWO (2)	DIESEL	2012	HP	THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1) VENT.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	4.8	G/HP-H	3 HOURS	500	HOURS OF OPERATION	YEARLY	0		
*IN-0166	INDIANA GASIFICATION, LLC	6/27/2012	EMERGENCY GENERATORS	DIESEL	1341	HORSEPOWER, EACH	IDENTIFIED AS EU-009A AND EU-009B	GOOD COMBUSTION PRACTICES AND LIMITED HOURS OF NON-EMERGENCY OPERATION	0			0			0		
*IN-0173	MIDWEST FERTILIZER CORPORATION	6/4/2014	DIESEL FIRED EMERGENCY GENERATOR	NO. 2, DIESEL	3600	BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	4.46	G/HP-H	3-HR AVERAGE	0			0		
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	DIESEL FIRED EMERGENCY GENERATOR	NO. 2 FUEL OIL	4690	B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	4.46	G/HP-H	3-HR AVERAGE	0			0		
*IN-0180	MIDWEST FERTILIZER CORPORATION	6/4/2014	DIESEL FIRED EMERGENCY GENERATOR	NO. 2, DIESEL	3600	BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	4.46	G/HP-H	3-HR AVERAGE	0			0		
KS-0028	NEARMAN CREEK POWER STATION	10/18/2005	EMERGENCY BLACK START GENERATOR	NO. 2 FUEL OIL	24.1	MMBTU/H	THE CUMMINS POWER GENERATION DIESEL GENERATOR (MODEL NO.: QSK78-G6) SHALL ONLY COMBUST NO. 2 FUEL OIL WITH VERY LOW SULFUR CONTENT AS THE PRIMARY FUEL TYPE. THERE WILL BE NO SECONDARY FUEL FOR BACKUP. [NOTE: THE INCREASE IN SIZE OF THE EMERGENCY BLACK START GENERATOR CAUSED THE SIGNIFICANT MODIFICATION. IN THE ORIGINAL PERMIT, OCTOBER 21, 2004, THE EMERGENCY BLACK START GENERATOR WAS A CATERPILLAR DIESEL GENERATOR (MODEL NO.: 3508 DITA) 900 KW. IT WAS CHANGED TO A CUMMINS POWER GENERATION DIESEL GENERATOR (MODEL NO.: QSK78-G6) 2.8 MW.]	EMERGENCY DIESEL GENERATORS HAVE NOT BEEN REQUIRED TO INSTALL ADDITIONAL NOX CONTROLS BECAUSE OF INTERMITTENT OPERATION.	84.8	LB/H	FULL LOAD OPERATIONS	0			0		NOT AVAILABLE

Table D-D-1
Nitrogen Oxides (NO_x) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCD	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
LA-0211	GARYVILLE REFINERY	12/27/2006	EMERGENCY GENERATORS (DOCK & TANK FARM) (21-08 & 22-08)	DIESEL	1341	HP	21-08: 1341 HP 22-08: 671 HP GENERATORS PERMITTED FOR 182 H/YR EA.	USE OF DIESEL WITH A SULFUR CONTENT OF 15 PPMV OR LESS	0.031	LB/HP-H	ANNUAL AVERAGE	0			0		
LA-0219	CREOLE TRAIL LNG IMPORT TERMINAL	8/15/2007	DIESEL EMERGENCY GENERATOR NOS. 1 & 2	DIESEL	2168	HP EACH		GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN INCORPORATING FUEL INJECTION TIMING RETARDATION (ITR)	37.95	LB/H	HOURLY MAXIMUM	9.49	T/YR	ANNUAL MAXIMUM	0		
LA-0231	LAKE CHARLES GASIFICATION FACILITY	6/22/2009	DIESEL POWER GENERATOR ENGINES (2)	DIESEL	1341	HP EACH		COMPLY WITH 40 CFR 60 SUBPART IIII	17.09	LB/H	MAXIMUM (EACH)	5.78	G/HP-H		0		
LA-0251	FLOPAM INC. FACILITY	4/26/2011	Large Generator Engines (17 units)	Diesel	0		11 units: 591 hp 6 units: 1175 hp		6.32	LB/H	(591 HP UNITS)	10.36	LB/H	(1175 HP UNITS)	6.4	G/KW-H	(NOX + NMHC)
*LA-0272	AMMONIA PRODUCTION FACILITY SALEM HARBOR STATION REDEVELOPMENT	3/27/2013	EMERGENCY DIESEL GENERATOR (2205-B)	DIESEL	1200	HP	OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/YR.	Compliance with 40 CFR 60 Subpart IIII; good combustion practices.	0			0			6.4	G/KW-HR	NOX + NMHC
*MA-0039		1/30/2014	Emergency Engine/Generator THREE (3)	ULSD	7.4	MMBtu/hr	â‰¤ 300 hours of operation per 12-month rolling period S in ULSD: â‰¤ 0.0015% by weight		4.8	G/HP-H	1 HR BLOCK AVG	11.6	LB/H	1 HR BLOCK AVG	0		
MD-0037	MEDIMMUNE FREDERICK CAMPUS	1/28/2008	DIESEL (NO. 2 FUEL OIL) FIRED, EMERGENCY GENERATORS EACH RATED AT 2500 KILOWATTS (3604 BRAKE HORSEPOWER	DIESEL (NO. 2 FUEL OIL)	2500	KW			6.06	G/HP-H		0			6.06	G/HP-H	
*MD-0042	WILDCAT POINT GENERATION FACILITY	4/8/2014	EMERGENCY GENERATOR 1	ULTRA LOW SULFUR DIESEL	2250	KW	40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	LIMITED OPERATING HOURS, USE OF ULTRA- LOW SULFUR FUEL AND GOOD COMBUSTION PRACTICES	4.8	G/HP-H		6.4	G/KW-H		0		
*MD-0043	PERKRYMAN GENERATING STATION	7/1/2014	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	1300	HP	40 CFR 60 SUBPART IIII, GOOD COMBUSTION PRACTICES	GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OPERATION, AND EXCLUSIVE USE OF ULSD	4.8	G/HP-H		6.4	G/KW-H		0		
*MD-0044	COVE POINT LNG TERMINAL	6/9/2014	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	1550	HP	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	GOOD COMBUSTION PRACTICES AND DESIGNED TO ACHIEVE EMISSION LIMIT	4.8	G/HP-H	COMBINED NOX + NMHC	6.4	G/KW-H	COMBINED NOX + NMHC	0		
MI-0394	WARREN TECHNICAL CENTER	2/29/2012	Four (4) Emergency Generators	Diesel	2280	KW	Each generator is 2280 kW (3058 hp each). Standard generator sets.	No add-on controls, but ignition timing retardation (ITR) is good design. Engines are tuned for low-NOx operation versus low CO operation.	6.93	G/KW-H	EACH GENERATOR ENGINE	0			0		
MI-0394	WARREN TECHNICAL CENTER	2/29/2012	Nine (9) DRUPS Emergency Generators	Diesel	3010	KW	Each emergency generator is 3010 kW each (4035 hp each). DRUPS stands for Diesel Rotary Uninterruptable Power supply system. The system provides for zero down-time in electrical energy supply at the onset of a power outage. The system stores energy in a fly-wheel that powers the generator until the diesel engine starts up.	No add-on controls, but ignition timing retardation (ITR) is good design. Engines are tuned for low-NOx operation versus low CO operation.	5.98	G/KW-H	EACH GENERATOR ENGINE	0			0		
MI-0395	WARREN TECHNICAL CENTER	7/13/2012	Nine (9) DRUPS Emergency Generators	Diesel	3010	KW	Each generator is 3010 kW each (4035 hp each). DRUPS stands for Diesel Rotary Uninterruptable Power supply system. The system provides for zero down-time in electrical energy supply at the onset of a power outage. The system stores energy in a fly-wheel that powers the generator until the diesel engine starts up.	No add-on controls, but ignition timing retardation (ITR) is good design. Engines are tuned for low-NOx operation versus low CO operation.	5.98	G/KW-H	EACH GENERATOR ENGINE	0			0		
MI-0395	WARREN TECHNICAL CENTER	7/13/2012	Four (4) Emergency Generators	Diesel	2500	KW	Each generator is 2500 kW (3634 hp each). Standard generator sets.	No add-on control, but ignition timing retardation (ITR) is good design. Engines are tuned for low-NOx operation versus low CO operation.	7.13	G/KW-H	EACH GENERATOR ENGINE	0			0		
*MI-0400	WOLVERINE POWER	6/29/2011	Turbine generator (EUBLACKSTART)	Diesel	540	MMBTU/H	This is a turbine generator identified in the permit as EUBLACKSTART. It has a throughput capacity of 540MMBTU/HR which equates to 102 MW. The maximum operation was based on 500 hours per year.		0.16	LB/MMBTU	TEST PROTOCOL	0			0		
MN-0071	FAIRBAULT ENERGY PARK	6/5/2007	EMERGENCY GENERATOR	NO. 2	1750	KW	THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF THE 670 HP GENERATOR (LISTED AS A “IC ENGINE, LARGE, FUEL OIL) IN MN-0053		0.024	LB/HP-H	3 HOUR AVERAGE	0			0		
NH-0015	CONCORD STEAM CORPORATION	2/27/2009	EMRGENCY GENERATOR 1	DIESEL FUEL	5.6	MMBTU/H	OPERATES LESS THAN 500 HOURS PER CONSECUTIVE 12 MONTH PERIOD	LESS THAN 500 HOURS OF OPERATION PER CONSECUTIVE 12 MONTH PERIOD	1.98	LB/MMBTU	AVERAGE OF 3 1-HOUR TEST RUNS	0			0		
NH-0015	CONCORD STEAM CORPORATION	2/27/2009	EMERGENCY GENERATOR 2	DIESEL FUEL	11.6	MMBTU/H	OPERATES LESS THAN 500 HOURS PER CONSECUTIVE 12 MONTH PERIOD AND PRIMARY USE IS TO START UP BOILER 1 AFTER A POWER OUTAGE.	OPERATES LESS THAN 500 HOURS PER CONSECUTIVE 12 MONTH PERIOD.	1.98	LB/MMBTU	AVERAGE OF 3 1-HOUR TEST RUNS	0			0		
NJ-0079	WOODBRIDGE ENERGY CENTER	7/25/2012	Emergency Generator	Ultra Low Sulfur distillate Diesel	100	H/YR	The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with 15 ppm % Sulfur by weight only	Use of ULSD diesel oil	21.16	LB/H		0			0		
NJ-0080	HESS NEWARK ENERGY CENTER	11/1/2012	Emergency Generator	ULSD	200	H/YR		use of ultra low sulfur diesel (ULSD) a clean fuel	18.53	LB/H		0			0		

Table D-D-1
Nitrogen Oxides (NO_x) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	SMALL INTERNAL COMBUSTION ENGINE (<600 HP) - UNIT FL12	DIESEL OIL	536	HP	UNIT FL12 IS A DETROIT DIESEL GENERATOR AT FLAMINGO LAS VEGAS. LIKE ALL THE OTHER DIESEL GENERATORS, THE UNIT IS SUBJECT TO THE LIMIT OF MONTHLY AND ANNUAL OPERATING TIMES FOR 2 HOURS PER MONTH AND 36 HOURS PER YEAR RESPECTIVELY. EMISSION FACTORS LISTED IN AP-42 ARE USED TO CALCULATE THE EMISSION LIMITS FOR EACH AND EVERY DIESEL GENERATOR IN THIS MAJOR STATIONARY SOURCE, AND ARE NOT REPEATED FURTHER FOR REPORTING THE BACT DETERMINATIONS.	THE UNIT IS EQUIPPED WITH A TURBOCHARGER.	0.031	LB/HP-H		16.62	LB/H		0.031	LB/HP-H	
NV-0050	MGM MIRAGE	11/30/2009	DIESEL EMERGENCY GENERATORS - UNITS CC009 THRU CC015 AT CITY CENTER	DIESEL OIL	3622	HP	THE SEVEN UNITS ARE IDENTICAL CATERPILLAR DIESEL EMERGENCY GENERATORS, EACH OF WHICH IS RATED AT 3,622 HORSEPOWER (HP). OPERATION OF EACH OF THE UNITS IS LIMITED TO ONE HOUR/DAY AND TWELVE HOURS/YEAR FOR TESTING AND MAINTENANCE PURPOSES ONLY. THE EMISSION LIMITS ARE BASED ON THE ATC PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006.	TURBOCHARGER AND AFTER-COOLER	0.01	LB/HP-H		37.4	LB/H		0.01	LB/HP-H	
NV-0050	MGM MIRAGE	11/30/2009	DIESEL EMERGENCY GENERATORS - UNITS LX024 AND LX025 AT LUXOR	DIESEL OIL	2206	HP	THE TWO UNITS ARE IDENTICAL CATERPILLAR GENERATORS MODEL 3512C. EACH UNIT HAS A FOUR-STROKE COMPRESSION-IGNITION ENGINE RATED AT 2,206 HORSE POWER (HP). THE EMISSION LIMITS REPORTED HEREIN ARE BASED ON THE ATC PERMIT FOR MODIFICATION #10 DATED SEPTEMBER 20, 2006. EACH UNIT IS ALLOWED TO OPERATE UP TO ONE HOUR PER DAY AND FIFTY TWO HOURS PER YEAR.	TURBOCHARGING, AFTER-COOLING, AND LEAN-BURN TECHNOLOGY	0.0131	LB/HP-H		28.98	LB/H		0.0131	LB/HP-H	
OH-0317	OHIO RIVER CLEAN FUELS, LLC	11/20/2008	EMERGENCY GENERATOR	DIESEL FUEL OIL	2922	HP	SUBJECT TO NSPS SUBPART III. WILL INSTALL NON-RESETTABLE HOUR METER PRIOR TO STARTUP PER 40 CFR 60.420(a). DIESEL FUEL SHALL MEET THE REQUIREMENTS OF 40 CFR 80.510 AND 60.4207: SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40 MINIMUM OR AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	GOOD COMBUSTION PRACTICES, GOOD ENGINE DESIGN, IGNITION TIMING RETARD, TURBOCHARGER, AND LOW-TEMPERATURE AFTERCOOLER	26.47	LB/H		6.61	T/YR	PER ROLLING 12-MONTH PERIOD	6.4	G/KW-H	FOR NMHC AND NOX COMBINED 95% NOX
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Emergency generator	diesel	2250	KW	Emergency diesel fired generator restricted to 500 hours of operation per rolling 12-months.	Purchased certified to the standards in NSPS Subpart IIII	27.8	LB/H		6.95	T/YR	PER ROLLING 12-MONTHS	0		SEE NOTES
OK-0118	HUGO GENERATING STA	2/9/2007	DIESEL INTERNAL COMBUSTION ENGINES					USE OF LOW SULFUR NO.2 FUEL OIL COMBINED WITH GOOD COMBUSTION PRACTICES AND LIMITED ANNUAL OPERATION	0		SEE NOTE	0			0		
OK-0128	MID AMERICAN STEEL ROLLING MILL	9/8/2008	Emergency Generator	No. 2 diesel	1200	HP		500 hours per year operations	15.6	LB/H		3.9	T/YR		5.90	G/HP-H	
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	EMERGENCY DIESEL GENERATOR (2200 HP)	LOW SULFUR DIESEL	2200	HP			23.15	LB/H		6.4	G/KW-H	NSPS	0		
PA-0271	MERCK & CO. WESTPOINT	2/23/2007	MOBILE EMERGENCY GENERATOR	DIESEL					6.8	G/HP-H		8.3	T/YR		0		
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T	10/10/2012	Emergency Generator	Diesel	0		The emergency generator will be restricted to operate not more than 100 hr/yr.		4.93	G/HP-H		0			4.93	G/B-HP-H	
*PA-0282	JOHNSON MATTHEY INC/CATALYTIC SYSTEMS DIV	6/1/2012	650-KW BACKUP DIESEL GENERATOR	Diesel / #2 Oil	45.8	GAL/H	The permittee shall ensure that the Backup Diesel Generator shall not be operated more than fifty (50) hours per year as a 12-month rolling sum.		6.9	G/HP-H		11.34	LB/H		0		
*PA-0282	JOHNSON MATTHEY INC/CATALYTIC SYSTEMS DIV	6/1/2012	400-KW DIESEL EMERGENCY GENERATOR	#2 Oil	29.2	GAL/H	The permittee may not, at any time, use commercial fuel oil as fuel for the Backup Diesel Generator which contains sulfur in excess of 0.3% by weight.		6.9	G/HP-H		0			0		
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	EMERGENCY DIESEL GENERATOR	Ultra Low sulfur Distillate	7.8	MMBTU/H		EMERGENCY GENERATOR (1,135 BHP - 750 KW)	9.89	LB/H		0.49	T/YR	12-MONTH ROLLING TOTAL	0		
*PA-0292	ML 35 LLC/PHILA CYBERCENTER	6/1/2012	EMERGENCY GENERATOR (2.25 MW EACH) - 5 UNITS	#2 Oil	0			Engines are equipped with SCR and CO Oxidation catalyst	0.67	G/KW-H		0.41	T/YR	12-MONTH ROLLING SUM	0		
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Generator	ULSD Fuel oil # 2	0		Emergency Generator is rated at 670 BHP and is limited to 500 hr per year (emergency and testing and maintenance combined)	SCR	2.85	G/HP-H		4.2	LB/H		0		
SC-0113	PYRAMAX CERAMICS, LLC	2/8/2012	EMERGENCY GENERATORS 1 THRU 8	DIESEL	757	HP	THE CONSTRUCTION PERMIT AUTHORIZES THE CONSTRUCTION OF EIGHT (8) IDENTICAL EMERGENCY GENERATORS. THIS PROCESS AND POLLUTANT INFORMATION IS FOR ONE SINGLE EMERGENCY GENERATOR.	ENGINES MUST BE CERTIFIED TO COMPLY WITH NSPS, SUBPART IIII.	4	G/KW-H		0			0		
SC-0114	GP ALLENDALE LP	11/25/2008	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.		11.41	LB/H		2.85	T/YR		0		
SC-0115	GP CLARENDON LP	2/10/2009	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.	TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.	11.41	LB/H		2.85	T/YR		0		
*SC-0132	ARGOS HARLEYVILLE PLANT	12/14/2007	EMERGENCY GENERATOR	DIESEL	1000	KW	THE DIESEL EMERGENCY GENERATOR IS LIMITED TO 500 HOURS OF OPERATION PER YEAR.		0			0			0		

Table D-D-1
Nitrogen Oxides (NO_x) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*SD-0005	DEER CREEK STATION	6/29/2010	Emergency Generator	Distillate Oil	2000	Kilowatts			0			0			0		
*TX-0671	PROJECT JUMBO	12/1/2014	Engines	ultra low sulfur diesel fuel	0		Two emergency diesel fired generators proposed. Each engine will be 4000 kW. Ultra low sulfur fuel is burned in the engines to meet the sulfur requirement of 15 ppm in 40CFR80.510(b). Each emergency engine is being permitted for maintenance and testing for maximum 100 hrs/yr. They are not being permitted for the actual emergency emissions	Each emergency generator's emission factor is based on EPA's Tier 2 standards at 40CFR89.112 for NO _x	5.43	G/KW-H		2.39	TPY		0		
*TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	4/1/2015	Emergency Diesel Generator	Diesel	1500	hp	The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500 horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides (NO _x) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited hours of operation. Emissions from the engine shall not exceed 0.0218 grams per horsepower-hour (g/hp-hr) of nitrogen oxides (NO _x). The engine is limited to 52 hours per year of non-emergency operation. Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide (CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra-low sulfur diesel). The engine is limited to 52 hours per year of non-emergency operation. Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engine and 40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines.	Minimized hours of operations Tier II engine	0.0218	G/HP-H		0.35	TPY		0		
WA-0328	BP CHERRY POINT COGENERATION PROJECT	1/11/2005	EMERGENCY GENERATOR	DIESEL FUEL	1.5	MW		THE ENGINE MUST BE NEW AND MUST SATISFY THE FEDERAL ENGINE STANDARDS OF 40 CFR 89 FOR YEAR OF PURCHASE.	0			0			0		*SEE NOTES
WA-0329	DARRINGTON ENERGY COGENERATION POWER PLANT	2/11/2005	STANDBY GENERATOR	DIESEL FUEL	1	MW		ENGINE MUST BE NEW AND SATISFY FEDERAL STANDARDS @ 40 CFR 89	0		SEE NOTE	0			0		
*WV-0025	MOUNDSVILLE COMBINED CYCLE POWER PLANT	11/21/2014	Emergency Generator	Diesel	2015.7	HP	Nominal 1,500 kW. Limited to 100 hours/year.		0			0			4.8	G/HP-HR	NMHC + NO _x
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	8/28/2012	Diesel Emergency Generator (EP15)	Ultra Low Sulfur Diesel	839	hp		EPA Tier 2 rated	0			0			0		

Table D-D-2
Carbon Monoxide (CO) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	Black Start and Emergency Internal Combustion Engines	Diesel	1500	kWe	Two (2) 600 kWe black start diesel generators and four (4) 1,500 kWe emergency diesel generators.	Good Combustion Practices	4.38	G/KW-HR	3-HOUR AVERAGE	0			0		
LA-0305	LAKE CHARLES METHANOL FACILITY	6/30/2016	Diesel Engines (Emergency)	Diesel	4023	hp		Complying with 40 CFR 60 Subpart IIII	0			0			0		
*LA-0312	ST. JAMES METHANOL PLANT	6/30/2017	DEG1-13 - Diesel Fired Emergency Generator Engine (EQT0012)	Diesel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII	0.51	LB/HR		0			0		
LA-0313	ST. CHARLES POWER STATION	8/31/2016	SCPS Emergency Diesel Generator 1	Diesel	2584	HP		Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel).	14.81	LB/H	HOURLY MAXIMUM	3.7	T/YR	ANNUAL MAXIMUM	2.6		
LA-0316	CAMERON LNG FACILITY	2/17/2017	emergency generator engines (6 units)	diesel	3353	hp		Complying with 40 CFR 60 Subpart IIII	0			0			0		
LA-0317	METHANEX - GEISMAR METHANOL PLANT	12/22/2016	Emergency Generator Engines (4 units)	Diesel	0		I-GDE-1201, II-GDE-1201 = 2346 hp I-GDE-1202 = 755 hp I-GDE-1203 = 1193 hp	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	0			0			0		
MI-0421	GRAYLING PARTICLEBOARD	8/26/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in FGRICE).	Good design and combustion practices.	3.5	G/KW-H	TEST PROTOCOL WILL SPECIFY AVG TIME	12.35	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME	0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUEMENGINE (Diesel fuel emergency engine)	Diesel Fuel	22.68	MMBTU/H	a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted to 4 hours/day, except during emergency conditions and stack testing, and 500 hours/year on a 12-month rolling time period basis.	Good combustion practices and meeting NSPS Subpart IIII requirements.	3.5	G/KW-H	TEST PROTOCOL SHALL SPECIFY AVG TIME	0			0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	EUEMRGRICE1 in FGRICE (Emergency diesel generator engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE1 in FGRICE).	Good design and combustion practices.	3.5	G/KW-H	TEST PROTOCOL SHALL SPECIFY	11.6	LB/H	TEST PROTOCOL SHALL SPECIFY	0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	EUEMRGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE2 in FGRICE).	Good design and combustion practices.	3.5	G/KW-H	TEST PROTOCOL SHALL SPECIFY	3.9	LB/H	TEST PROTOCOL SHALL SPECIFY	0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (North Plant): Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Good combustion practices and meeting NSPS Subpart IIII requirements.	3.5	G/KW-H	HOURLY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (South Plant): Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Good combustion practices and meeting NSPS IIII requirements.	3.5	G/KW-H	HOURLY	0			0		
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	EUEMENGINE: Emergency engine	Diesel	2	MW	A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to NSPS IIII.	State of the art combustion design.	3.5	G/KW-H	HOURLY	0			0		
AK-0076	POINT THOMSON PRODUCTION FACILITY	8/20/2012	Combustion of Diesel by ICEs	ULSD	1750	kW	Diesel-fired generators		3.5	G/KW-H		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Emergency Camp Generators	Ultra Low Sulfur Diesel	2695	hp	Three 2,695 hp ULSD-fired Standby Camp Generator Engines.		2.6	G/HP-H		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Bulk Tank Generator Engines	Ultra Low Sulfur Diesel	891	hp	Two ULSD-fired 891 hp Bulk Tank Storage Area Generator Engines		2.6	G/HP-H		0			0		
AL-0251	HILLABEE ENERGY CENTER	9/24/2008	EMERGENCY GENERATOR	DIESEL	600	EKW		GOOD COMBUSTION PRACTICES	0			0			0		
AZ-0046	ARIZONA CLEAN FUELS YUMA	4/14/2005	EMERGENCY GENERATOR	NO. 2 DIESEL FUEL	10.9	MMBTU/H	EQUIPMENT IDENTIFIED BY ID # S-29100		3.5	G/KW-H		0			0		NOT AVAILABLE
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	3/11/2010	EMERGENCY ENGINE	DIESEL	2000	KW	2000 KW (2,683 hp) engine	OPERATIONAL RESTRICTION OF 50 HR/YR	3.5	G/KW-H		2.6	G/HP-H		0		
CA-1212	PALMDALE HYBRID POWER PROJECT	10/18/2011	EMERGENCY IC ENGINE	DIESEL	2683	HP	UNIT IS 2000 KW		3.5	G/KW-H		2.6	G/HP-H		0		
FL-0310	SHADY HILLS GENERATING STATION	1/12/2009	2.5 MW EMERGENCY GENERATOR	ULTRA LOW S OIL	2.5	MW	MAXIMUM HOURS OF OPERATION: 500 HRS/YR	PURCHASED MODEL IS AT LEAST AS STRINGENT AS THE BACT VALUES UNDER EPA'S CERTIFICATION.	8.5	G/HP-H	3 ONE HOUR TEST RUNS BY EPA METHOD 10	0			0		
FL-0322	SWEET SORGHUM-TO-ETHANOL ADVANCED BIOREFINERY	12/23/2010	Emergency Generators, Two 2682 HP EA	ULSD	0		Two emergency generators, each rated at 2,000 kW, will be installed to provide backup electrical power in the event of a power outage at the SRF facility. The engines will fire ULSD fuel oil or propane and each will be limited to 500 hours per year of operation during emergencies. Each unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. Each engine will be designed to meet USEPA's 1% emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2006 or later.		3.5	G/KW-H		0			0		
*FL-0328	ENI - HOLY CROSS DRILLING PROJECT	10/27/2011	Emergency Engine	Diesel	580	HP	MAN D-2842 LE model engine	Use of good combustion practices, based on the current manufacturer's 1% specifications for this engine	0.09	T/YR	12-MONTH ROLLING	2.82	G/HP-H		0		
FL-0332	HIGHLANDS BIOREFINERY AND COGENERATION PLANT	9/23/2011	2000 KW Emergency Equipment		0		One emergency generator rated at 2,000 kW (2,682 HP) will be installed to provide backup electrical power in the event of a power outage at the HEF facility. The generator will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation during emergencies. The unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPA's 1% emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2006 or later.	See Pollutant Notes.	3.5	G/KW-H		0			0		

**Table D-D-2
Carbon Monoxide (CO) RBLC Search - Emergency Generator
Invenery, LLC - Allegheny County Energy Center Project**

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
FL-0332	HIGHLANDS BIOREFINERY AND COGENERATION PLANT	9/23/2011	600 HP Emergency Equipment	Ultra-Low Sulfur Oil		0	One 600 hp diesel fire pump engine will be installed to provide firewater during power outages. This unit will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation. This unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPA's emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2009 or later.	See Pollutant Notes.		2.6 G/HP-H		0				0	
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - Development Driller 1	Diesel		2229 hp		Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	0.37	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - C.R. Luigs	diesel		2064 hp	Caterpillar D3516A 1998	Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	0.34	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		
*FL-0346	LAUDERDALE PLANT	4/22/2014	Four 3100 kW black start emergency generators.	ULSD		2.32 MMBtu/hr (HHV) per engine	Fired with ULSD	Good combustion practice	3.5	G/KW-H		0			0		
*FL-0346	LAUDERDALE PLANT	4/22/2014	Emergency fire pump engine (300 HP)	USLD		29 MMBtu/hr	Emergency engine. BACT = NSPS IIII.	Good combustion practice.	3.5	G/KW-H		0			0		
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Main Propulsion Generator Diesel Engines	Diesel		9910 hp	Four 1998 Wartsila 18V32LNE 9910 hp and Two 1998 Wartsila 12V32LNE 6610 hp	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0.8	G/KW-H	ROLLING 24 HOUR AVERAGE	0			0		
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Emergency Diesel Engine	Diesel		3300 hp	1998 Wartsila 6R32LNE	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0			0			0		
IA-0088	ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	EMERGENCY GENERATOR	DIESEL		1500 KW	THREE 1,500 KW EMERGENCY GENERATORS ARE BEING INSTALLED AS A PART OF THIS PROJECT. PERMITS 07-A-542-P, 07-A-576-P AND 07-A-577-P. THE PROJECT ALSO INCLUDES THE INSTALLATION OF ONE 2,000 KW EMERGENCY GENERATOR. PERMIT 07-A-578-P. ALL FOUR EMERGENCY GENERATORS HAVE THE SAME SHORT TERM BACT LIMITS AND DIFFERENT TON/YR BACT LIMITS.	NO SPECIFIC CONTROL TECHNOLOGY IS SPECIFIED. ENGINE IS REQUIRED TO MEET LIMITS ESTABLISHED AS BACT (TIER 2 NONROAD). THIS COULD REQUIRE ANY NUMBER OF CONTROL TECHNOLOGIES AND OPERATIONAL REQ. TO MEET THE BACT STANDARD.	2.6	G/HP-H	AVERAGE OF 3 TEST RUNS	2.88	T/YR	12-MONTH ROLLING TOTAL	0		
IA-0095	FATE & LYLE INGREDIENTS AMERICAS, INC.	9/19/2008	EMERGENCY GENERATOR	DIESEL		700 KW			3.5	G/KW-H	AVERAGE OF THREE STACK TEST RUNS	1.35	T/YR	12-MONTH ROLLING TOTAL	0		
IA-0105	IOWA FERTILIZER COMPANY CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN COMPLEX	10/26/2012	Emergency Generator	diesel fuel		142 GAL/H	rated @ 2,000 KW	good combustion practices	3.5	G/KW-H	AVERAGE OF 3 STACK TEST RUNS	3.86	T/YR	ROLLING 12 MONTH TOTAL	0		
*IA-0106	POWER COUNTY ADVANCED ENERGY CENTER	2/10/2009	2 MW EMERGENCY GENERATOR, SRC25	ASTM #1, 2, DIESEL		2000 KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	GOOD COMBUSTION PRACTICES. EPA CERTIFIED PER NSPS IIII	0		SEE NOTE	0			0		
ID-0017	POWER COUNTY ADVANCED ENERGY CENTER	2/10/2009	500 KW EMERGENCY GENERATOR, FIRE PUMP, SRC26	ASTM #1, 2, DIESEL		500 KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	GOOD COMBUSTION PRACTICES. EPA CERTIFICATION PER NSPS IIII.	0		SEE NOTE	0			0		
ID-0018	LANGLEY GULCH POWER PLANT	6/25/2010	EMERGENCY GENERATOR ENGINE	DIESEL		750 KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CI ICE)	Tier IV standards for non-road engines at 40 CFR 1039.102, Table 7.	3.5	G/KW-H		0			0		
*IL-0114	CRONUS CHEMICALS, LLC	9/5/2014	Emergency Generator	distillate fuel oil		3755 HP			3.5	G/KW-H		0			0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	TWO (2) EMERGENCY DIESEL GENERATORS	DIESEL		1006 HP EACH	THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND EG02, EXHAUST THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	2.6	G/HP-H		500	HOURS OF OPERATIO N	YEARLY	0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	EMERGENCY DIESEL GENERATOR	DIESEL		2012 HP	THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1) VENT.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	2.6	G/HP-H	3 HOURS	500	HOURS OF OPERATIO N	YEARLY	0		
*IN-0166	INDIANA GASIFICATION, LLC	6/27/2012	TWO (2) EMERGENCY GENERATORS DIESEL FIRED	DIESEL		1341 EACH	IDENTIFIED AS EU-009A AND EU-009B	GOOD COMBUSTION PRACTICES AND LIMITED HOURS OF NON- EMERGENCY OPERATION	0			0			0		
*IN-0173	MIDWEST FERTILIZER CORPORATION	6/4/2014	EMERGENCY GENERATOR DIESEL-FIRED	NO. 2, DIESEL		3600 BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.61	G/HP-H	3-HR AVERAGE	0			0		
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	EMERGENCY GENERATOR DIESEL FIRED	NO. 2 FUEL OIL		4600 B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	2.61	G/HP-H	3-HR AVERAGE	0			0		
*IN-0180	MIDWEST FERTILIZER CORPORATION	6/4/2014	EMERGENCY GENERATOR	NO. 2, DIESEL		3600 BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	2.61	G/HP-H	3-HR AVERAGE	0			0		

**Table D-D-2
Carbon Monoxide (CO) RBLC Search - Emergency Generator
Invenery, LLC - Allegheny County Energy Center Project**

RBLCD	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
KS-0028	NEARMAN CREEK POWER STATION	10/18/2005	EMERGENCY BLACK START GENERATOR	NO. 2 FUEL OIL	24.1	MMBTU/H	THE CUMMINS POWER GENERATION DIESEL GENERATOR (MODEL NO.: QSK78-G6) SHALL ONLY COMBUST NO. 2 FUEL OIL WITH VERY LOW SULFUR CONTENT AS THE PRIMARY FUEL TYPE. THERE WILL BE NO SECONDARY FUEL FOR BACKUP. [NOTE: THE INCREASE IN SIZE OF THE EMERGENCY BLACK START GENERATOR CAUSED THE SIGNIFICANT MODIFICATION. IN THE ORIGINAL PERMIT, OCTOBER 21, 2004, THE EMERGENCY BLACK START GENERATOR WAS A CATERPILLAR DIESEL GENERATOR (MODEL NO.: 3508 DITA) 900 KW. IT WAS CHANGED TO A CUMMINS POWER GENERATION DIESEL GENERATOR (MODEL NO.: QSK78-G6) 2.8 MW.]	GOOD ENGINE DESIGN IS PROPOSED AS BACT		7.01 LB/H	FULL LOAD OPERATIONS	0			0		NOT AVAILABLE
LA-0211	GARYVILLE REFINERY	12/27/2006	EMERGENCY GENERATORS (DOCK & TANK FARM) (21-08 & 22-08)	DIESEL	1341	HP	GENERATORS PERMITTED FOR 182 H/YR EA.	USE OF DIESEL WITH A SULFUR CONTENT OF 15 PPMV OR LESS	0.0067	LB/HP-H	ANNUAL AVERAGE	0			0		
LA-0219	CREOLE TRAIL LNG IMPORT TERMINAL	8/15/2007	DIESEL EMERGENCY GENERATOR NOS. 1 & 2	DIESEL	2168	HP EACH		GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN INCORPORATING FUEL INJECTION TIMING RETARDATION (ITR)	12.24	LB/H	HOURLY MAXIMUM	3.06	T/YR	ANNUAL MAXIMUM	0		
LA-0231	LAKE CHARLES GASIFICATION FACILITY	6/22/2009	EMERGENCY DIESEL POWER GENERATOR ENGINES (2)	DIESEL	1341	HP EACH		COMPLY WITH 40 CFR 60 SUBPART IIII	0.62	LB/H	MAXIMUM (EACH)	0.21	G/HP-H		0		
LA-0251	FLOPAM INC. FACILITY	4/26/2011	Large Generator Engines (17 units)	Diesel	0		11 units: 591 hp 6 units: 1175 hp	no additional control	0.03	LB/H	(591 HP UNITS)	0.06	LB/H	(1175 HP UNITS)	3.5	G/KW-H	
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	8/16/2011	EMERGENCY DIESEL GENERATOR	DIESEL	1250	HP		ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	2.6	G/HP-H	ANNUAL AVERAGE	0			2.6	G/HP-H	ANNUAL AVERAGE
*LA-0272	AMMONIA PRODUCTION FACILITY	3/27/2013	EMERGENCY DIESEL GENERATOR (2205-B)	DIESEL	1200	HP	OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/YR.	Compliance with 40 CFR 60 Subpart IIII; good combustion practices.	0			0			3.5	G/KW-HR	
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	1/30/2014	Emergency Engine/Generator	ULSD	7.4	MMBtu/hr	8%± 300 hours of operation per 12-month rolling period S in ULSD: 8%±0.0015% by weight		2.6	G/HP-H	1 HR BLOCK AVG INCLUDING SS	6.34	LB/H	1 HR BLOCK AVG INCLUDING SS	0		
*MD-0042	WILDCAT POINT GENERATION FACILITY	4/8/2014	EMERGENCY GENERATOR 1	ULTRA LOW SULFU DIESEL	2250	KW	40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES AND HOURS OF OPERATION LIMITED TO 100 HOURS PER YEAR	2.6	G/HP-H		3.49	G/KW-H		0		
*MD-0044	COVE POINT LNG TERMINAL	6/9/2014	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	1550	HP	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	GOOD COMBUSTION PRACTICES AND DESIGNED TO MEET EMISSION LIMIT	2.6	G/HP-H		3.49	G/KW-H		0		
MI-0389	KARN WEADOCK GENERATING COMPLEX	12/29/2009	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	2000	KW	2980 HP. OPERATIONAL LIMITS: 1 HR/DAY, 500 HRS/YR FOR PM2.5 NAAQS.	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL.	3.5	G/KW-H	TEST METHOD	0			0		
MN-0071	FAIRBAULT ENERGY PARK	6/5/2007	EMERGENCY GENERATOR	NO. 2	1750	KW	THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF THE 670 HP GENERATOR (LISTED AS A ‘IC ENGINE, LARGE, FUEL OIL’) IN MN-0053.		0.006	LB/HP-H	3 HOUR AVERAGE	0			0		
NJ-0079	WOODBIDGE ENERGY CENTER	7/25/2012	Emergency Generator	Ultra Low Sulfur distillate Diesel	100	H/YR	The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with 15 ppm % Sulfur by weight only	Use of ULSD oil	1.99	LB/H		0			0		
NJ-0080	HESS NEWARK ENERGY CENTER	11/1/2012	Emergency Generator	ULSD	200	H/YR			11.56	LB/H		0			0		
NV-0049	HARRAH'S OPERATING COMPANY, INC.	8/20/2009	SMALL INTERNAL COMBUSTION ENGINE (6<600 HP) - UNIT FL12	DIESEL OIL	536	HP	UNIT FL12 IS A DETROIT DIESEL GENERATOR AT FLAMINGO LAS VEGAS. LIKE ALL THE OTHER DIESEL GENERATORS, THE UNIT IS SUBJECT TO THE LIMIT OF MONTHLY AND ANNUAL OPERATING TIMES FOR 2 HOURS PER MONTH AND 36 HOURS PER YEAR RESPECTIVELY. EMISSION FACTORS LISTED IN AP-42 ARE USED TO CALCULATE THE EMISSION LIMITS FOR EACH AND EVERY DIESEL GENERATOR IN THIS MAJOR STATIONARY SOURCE, AND ARE NOT REPEATED FURTHER FOR REPORTING THE BACT DETERMINATIONS. THE SEVEN UNITS ARE IDENTICAL CATERPILLAR DIESEL EMERGENCY GENERATORS, EACH OF WHICH IS RATED AT 3,622 HORSEPOWER (HP). OPERATION OF EACH OF THE UNITS IS LIMITED TO ONE HOUR/DAY AND TWELVE HOURS/YEAR FOR TESTING AND MAINTENANCE PURPOSES ONLY. THE EMISSION LIMITS ARE BASED ON THE ATC PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006.	THE UNIT IS EQUIPPED WITH A TURBOCHARGER.	0.0067	LB/HP-H		3.58	LB/H		0.0067	LB/HP-H	
NV-0050	MGM MIRAGE	11/30/2009	DIESEL EMERGENCY GENERATORS - UNITS CC09 THRU CC015 AT CITY CENTER	DIESEL OIL	3622	HP	THE TWO UNITS ARE IDENTICAL CATERPILLAR GENERATORS MODEL 3512C. EACH UNIT HAS A FOUR-STROKE COMPRESSION-IGNITION ENGINE RATED AT 2,206 HORSE POWER (HP). THE EMISSION LIMITS REPORTED HEREIN ARE BASED ON THE ATC PERMIT FOR MODIFICATION #10 DATED SEPTEMBER 20, 2006. EACH UNIT IS ALLOWED TO OPERATE UP TO ONE HOUR PER DAY AND FIFTY TWO HOURS PER YEAR.	TURBOCHARGER AND GOOD COMBUSTION PRACTICES	0.0017	LB/HP-H		6.05	LB/H		0.0017	LB/HP-H	
NV-0050	MGM MIRAGE	11/30/2009	EMERGENCY GENERATORS - UNITS LX02 AND LX025 AT LUXOR	DIESEL OIL	2206	HP	2922 MAXIMUM HORSE POWER	TURBOCHARGER AND GOOD COMBUSTION PRACTICES	0.0018	LB/HP-H		3.95	LB/H		0.0018	LB/HP-H	
OH-0317	OHIO RIVER CLEAN FUELS, LLC	11/20/2008	EMERGENCY GENERATOR	DIESEL FUEL OIL	2922	HP	SUBJECT TO NSPS SUBPART IIII. WILL INSTALL NON-RESETTABLE HOUR METER PRIOR TO STARTUP PER 40 CFR 60.4209(A)										
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Emergency generator	diesel	2250	KW	DIESEL FUEL SHALL MEET THE REQUIREMENTS OF 40 CFR 80.510 AND 60.4207. SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40 MINIMUM OR AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	15.18	LB/H		3.8	T/YR	PER ROLLING 12-MONTH PERIOD	3.5	G/KW-H	FROM PART 89, SECTION 112
OK-0118	HUGO GENERATING STA	2/9/2007	Emergency generator	diesel	2250	KW	Emergency diesel fired generator restricted to 500 hours of operation per rolling 12-months.	Purchased certified to the standards in NSPS Subpart IIII	17.35	LB/H		4.34	T/YR	PER ROLLING 12-MONTHS	0		SEE NOTES
OK-0118	MID AMERICAN STEEL ROLLING MILL	2/9/2007	EMERGENCY DIESEL INTERNAL COMBUSTION ENGINES					USE OF LOW SULFUR NO.2 FUEL OIL COMBINED WITH GOOD COMBUSTION PRACTICES AND LIMITED ANNUAL OPERATION	0		SEE NOTE	0			0		
OK-0128	CHOUTEAU POWER PLANT	9/8/2008	Emergency Generator	No. 2 diesel	1200	HP			6.6	LB/H		1.65	T/YR		2.49	G/HP-H	
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	EMERGENCY DIESEL GENERATOR (2200 HP)	LOW SULFUR DIESEL	2200	HP			12.66	LB/H		3.5	G/KW-H	NSPS	0		
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	EMERGENCY FIRE PUMP (267-HP DIESEL)	LOW SULFUR DIESEL	267	HP			2.6	G/HP-H	NSPS	0			0		

Table D-D-2
Carbon Monoxide (CO) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T	10/10/2012	Emergency Generator	Diesel		0	The emergency generator will be restricted to operate not more than 100 hr/yr.		0.13	G/HP-H		0.42	LB/H		0.13	G/B-HP-H	
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	EMERGENCY GENERATOR	Ultra Low sulfur Distillate	7.8	MMBTU/H	EMERGENCY GENERATOR (1,135 BHP - 750 KW)		5.79	LB/H		0.29	T/YR	12-MONTH ROLLING TOTAL	0		
*PA-0292	ML 35 LLC/PHILA CYBERCENTER	6/1/2012	DIESEL GENERATOR (2.25 MW EACH) - 5 UNITS	#2 Oil		0	Engines are equipped with SCR and CO Oxidation catalyst	CO Oxidation Catalyst	3.5	G/KW-H		0.04	T/YR	12-MONTH ROLLING	0		
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Generator	ULSD Fuel oil # 2		0	Emergency Generator is rated at 670 BHP and is limited to 500 hr per year (emergency and testing and maintenance, combined)		2.6	G/HP-H		3.86	LB/H		0		
SC-0113	PYRAMAX CERAMICS, LLC	2/8/2012	EMERGENCY GENERATORS 1 THRU 8	DIESEL	757	HP	THE CONSTRUCTION PERMIT AUTHORIZES THE CONSTRUCTION OF EIGHT (8) IDENTICAL EMERGENCY GENERATORS. THIS PROCESS AND POLLUTANT INFORMATION IS FOR ONE SINGLE EMERGENCT GENERATOR.	ENGINES MUST BE CERTIFIED TO COMPLY WITH NSPS, SUBPART IIIH.	3.5	G/KW-H		0			0		
SC-0114	GP ALLENDALE LP	11/25/2008	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.		3.03	LB/H		0.76	T/YR		0.98	G/HP-H	
SC-0115	GP CLARENDON LP	2/10/2009	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE DIESEL EMERGENCY GENERATOR IS LIMITED TO 500 HOURS OF OPERATION PER YEAR.	TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.	3.03	LB/H		0.76	T/YR		0.98	G/HP-H	
*SC-0132	ARGOS HARLEVILLE PLANT	12/14/2007	EMERGENCY GENERATOR	DIESEL	1000	KW			0			0			0		
*SD-0005	DEER CREEK STATION	6/29/2010	Emergency Generator	Distillate Oil	2000	Kilowatts			0			0			0		
*TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	4/1/2015	Emergency Diesel Generator	Diesel	1500	hp	The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500 horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides (NOx) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited hours of operation. Emissions from the engine shall not exceed 0.0218 grams per horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52 hours per year of non-emergency operation. Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide (CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra- low sulfur diesel). The engine is limited to 52 hours per year of non-emergency operation. Also applicable: 40CFR60 IIIH Standards of Performance for Stationary Compression Ignition Internal Combustion Engine and 40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines.	Minimized hours of operations (50 hours) Tier II engine	0.0126	G/HP-H		0.2	T/YR		0		
*WV-0025	MOUNDSVILLE COMBINED CYCLE POWER PLANT	11/21/2014	Emergency Generator	Diesel	2015.7	HP	Nominal 1,500 kW. Limited to 100 hours/year.		0			0			2.6	G/HP-HR	
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	8/28/2012	Diesel Emergency Generator (EP15)	Ultra Low Sulfur Diesel	839	hp		EPA Tier 2 rated	0			0			0		

Table D-D-3
Volatile Organic Compounds (VOC) RBL Search - Emergency Generator
Invenery, LLC - Allegheny County Energy Center Project

RBLCD	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*AL-0318	TALLADEGA SAWMILL	12/18/2017	250 Hp Emergency CL Diesel-fired RICE	Diesel	0		Emergency Only		0			0			0		
IN-0263	MIDWEST FERTILIZER COMPANY LLC	3/23/2017	EMERGENCY GENERATORS (EQU14A AND EU-014B)	DISTILLATE OIL	3600	HP EACH		GOOD COMBUSTION PRACTICES	0.35	G/HP-H EACH	3 HOUR AVERAGE	500	H/YR EACH		0		
LA-0276	BATON ROUGE JUNCTION FACILITY	12/15/2016	Emergency Generators (2 units)	natural gas	0		EQT0061 = 150 kW EQT0062 = 65 kW	Comply with standards of NSPS Subpart JJJJ	0			0			0		
LA-0292	HOLBROOK COMPRESSOR STATION	1/22/2016	Emergency Generators No. 1 & No. 2 DEGI-13 - Diesel Fired Emergency Generator Engine (EQT0012)	Diesel	1341	HP		Good combustion practices consistent with the manufacturer's recommendations to maximize fuel efficiency and minimize emissions	0.83	LB/HR	HOURLY MAXIMUM	0.04	TPY	ANNUAL MAXIMUM	0.28		
*LA-0312	ST. JAMES METHANOL PLANT	6/30/2017	Emergency Generator Engine (EQT0012)	Diesel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII	0.04	LB/HR		0			0		
LA-0313	ST. CHARLES POWER STATION	8/31/2016	SCPS Emergency Diesel Generator 1	Diesel	2584	HP		Good combustion practices	27.34	LB/H	HOURLY MAXIMUM	6.84	T/YR	ANNUAL MAXIMUM	0		
LA-0316	CAMERON LNG FACILITY	2/17/2017	emergency generator engines (6 units)	diesel	3353	hp		Complying with 40 CFR 60 Subpart IIII	0			0			0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUEMENGINE (Diesel fuel emergency engine)	Diesel Fuel	22.68	MMBTU/H	a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted to 4 hours/day, except during emergency conditions and stack testing, and 500 hours/year on a 12-month rolling time period basis.	Good combustion practices.	1.87	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME	0			0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUPFENGINE (Emergency engine--diesel fire pump)	Diesel	1.66	MMBTU/H	A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Powers a fire pump used for a back up during an emergency (EUPFENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100 hours/year on a 12-month rolling time period basis.	Good combustion practices	0.64	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (North Plant): Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Good combustion practices.	0.86	LB/H	HOURLY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (South Plant): Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Good combustion practices	0.86	LB/H	HOURLY	0			0		
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	EUEMENGINE: Emergency engine	Diesel	2	MW	A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to NSPS IIII.	State of the art combustion design.	1.89	LB/H	HOURLY	0			0		
TX-0799	BEAUMONT TERMINAL	6/8/2016	EMERGENCY ENGINES DIESEL-FIRED EMERGENCY GENERATOR 3000 kW	diesel	0			Equipment specifications and good combustion practices. Operation limited to 100 hours per year.	0.0025	LB/HP-HR		0			0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	(1) DIESEL-FIRED EMERGENCY GENERATORS 3000 kW	DIESEL FUEL	0			Good Combustion Practices/Maintenance	6.4	G/KW	PER HR	0			0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	(2) PROPANE-FIRED EMERGENCY GENERATORS 150 kW	PROPANE	0			Good combustion practices	1	G/HP-H	PER HR	0			0		
VA-0327	PERDUE GRAIN AND OILSEED, LLC	7/12/2017	Emergency Generator	Diesel	0		760 bhp engine		0.49	LB/HR		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Remote Incinerator Generator Engine	Ultra Low Sulfur Diesel	102	hp	102 hp ULSD-fired existing, small, remote Waste Incinerator		3	LB/TON		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Emergency Camp Generators	Ultra Low Sulfur Diesel	2695	hp	Three 2,695 hp ULSD-fired Standby Camp Generator Engines.	no add on controls	0.0007	LB/HP-H		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Airstrip Generator Engine	Ultra Low Sulfur Diesel	490	hp	One 490 hp Airstrip Generator Engine		0.0025	LB/HP-H		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Agitator Generator Engine	Ultra Low Sulfur Diesel	98	hp	ULSD-fired 98 hp Agitator Generator Engine		0.0025	LB/HP-H		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Incinerator Generator Engine	Ultra Low Sulfur Diesel	102	hp	ULSD-fired 102 hp Incinerator Generator Engine		0.0025	LB/HP-H		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Bulk Tank Generator Engines	Ultra Low Sulfur Diesel	891	hp	Two ULSD-fired 891 hp Bulk Tank Storage Area Generator Engines		0.0007	LB/HP-H		0			0		
AL-0251	HILLABEE ENERGY CENTER	9/24/2008	EMERGENCY GENERATOR	DIESEL	600	EKW		GOOD COMBUSTION PRACTICES	0			0			0		
*FL-0328	ENI - HOLY CROSS DRILLING PROJECT	10/27/2011	Emergency Engine	Diesel	580	HP	MAN D-2842 LE model engine	Use of good combustion practices, based on the current manufacturer's specifications for this engine	0.03	T/YR	12-MONTH ROLLING	0.94	G/HP-H		0		
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - Development Driller 1	Diesel	2229	hp		Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	0.04	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		

Table D-D-3
Volatile Organic Compounds (VOC) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - C.R. Luigs	diesel	2064	hp	Caterpillar D3516A 1998	Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	0.04	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Main Propulsion Generator Diesel Engines	Diesel	9910	hp	Four 1998 Wartsila 18V32LNE 9910 hp and Two 1998 Wartsila 12V32LNE 6610 hp	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0.35	G/KW-H	ROLLING 24 HOUR AVERAGE	0			0		
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Emergency Diesel Engine	Diesel	3300	hp	1998 Wartsila 6R32LNE	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0			0			0		
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Remotely Operated Vehicle Emergency Generator	Diesel	427	hp	2004 Cummins QSM11-G2NR3	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0			0			0		
IA-0084	ADM POLYMERS	11/30/2006	EMERGENCY GENERATOR	DIESEL FUEL	74.3	GAL/H	1,502 BHP	GOOD COMBUSTION PRACTICES	4.8	GAL/B-HP-H	AVERAGE OF THREE (3) 1-H TEST RUNS	3.97	T/YR	ROLLING 12 MONTH TOTAL	0		
IA-0088	ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	EMERGENCY GENERATOR	DIESEL	1500	KW	THREE 1,500 KW EMERGENCY GENERATORS ARE BEING INSTALLED AS A PART OF THIS PROJECT. PERMITS 07-A-542-P, 07-A-576-P AND 07-A-577-P. THE PROJECT ALSO INCLUDES THE INSTALLATION OF ONE 2,000 KW EMERGENCY GENERATOR. PERMIT 07-A-578-P. ALL FOUR EMERGENCY GENERATORS HAVE THE SAME SHORT TERM BACT LIMITS AND DIFFERENT TON/YR BACT LIMITS.	NO SPECIFIC CONTROL TECHNOLOGY IS SPECIFIED. ENGINE IS REQUIRED TO MEET LIMITS ESTABLISHED AS BACT (TIER 2 NONROAD). THIS COULD REQUIRE ANY NUMBER OF CONTROL TECHNOLOGIES AND OPERATIONAL REQ. TO MEET THE BACT STANDARD.	0.3	G/HP-H	AVERAGE OF 3 TEST RUNS	0.33	T/YR	12-MONTH ROLLING TOTAL	0		
IA-0095	TATE & LYLE INGREDIENTS AMERICAS, INC.	9/19/2008	EMERGENCY GENERATOR	DIESEL	700	KW			0.2	G/KW-H	AVERAGE OF THREE STACK TEST RUNS	0.08	T/YR	12-MONTH ROLLING TOTAL	0		
IA-0105	IOWA FERTILIZER COMPANY CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN COMPLEX	10/26/2012	Emergency Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	0.4	G/KW-H	AVERAGE OF 3 STACK TEST RUNS	0.44	T/YR	ROLLING 12 MONTH TOTAL	0		
*IA-0106	LANGLEY GULCH POWER PLANT	7/12/2013	Emergency Generators	diesel fuel	180	GAL/H	There are two (2) identically sized generators.	good combustion practices	4	G/KW-H	AVERAGE OF THREE (3) STACK TEST RUNS	0.31	T/YR	ROLLING TWELVE (12) MONTH TOTAL	0		
ID-0018	CRONUS CHEMICALS, LLC	6/25/2010	EMERGENCY GENERATOR ENGINE	DIESEL	750	KW	COMPRESSION IGNITION INTERNAL COMBUSTION (CI/ICE)	Tier IV standards for non-road engines at 40 CFR 1039.102, Table 7.	6.4	G/KW-H	NOX+NMHC	0			0		
*IL-0114	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	TWO (2) EMERGENCY DIESEL GENERATORS	DIESEL	1006	HP EACH	THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND EG02, EXHAUST THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	1.04	LB/H		500	HOURS OF OPERATION	YEARLY	0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	EMERGENCY DIESEL GENERATOR	DIESEL	2012	HP	THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1) VENT.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	1.04	LB/H	3 HOURS	500	HOURS OF OPERATION	YEARLY	0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	EMERGENCY GENERATOR ULSD TANKS		550	GALLONS EACH	THE TWO (2) TANKS ARE IDENTIFIED AS TK07 AND TK08	GOOD DESIGN AND OPERATING PRACTICES	0			0			0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	EMERGENCY GENERATOR ULSD TANK		300	GALLONS	THIS TANK IS IDENTIFIED AS TK50	GOOD COMBUSTION PRACTICE AND FUEL SPECIFICATION	0			0			0		
*IN-0173	MIDWEST FERTILIZER CORPORATION	6/4/2014	DIESEL FIRED EMERGENCY GENERATOR	NO. 2, DIESEL	3600	BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.31	G/HP-H	3-HR AVERAGE	0			0		
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	DIESEL FIRED EMERGENCY GENERATOR	NO. 2 FUEL OIL	4690	B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	0.31	G/HP-H	3-HR AVERAGE	0			0		
LA-0211	GARYVILLE REFINERY	12/27/2006	EMERGENCY GENERATORS (DOCK & TANK FARM)	DIESEL			21-08: 1341 HP 22-08: 671 HP GENERATORS PERMITTED FOR 182 H/YR EA.	USE OF DIESEL WITH A SULFUR CONTENT OF 15 PPMV OR LESS	0.0025	LB/HP-H	ANNUAL AVERAGE	0			0		
LA-0219	CREOLE TRAIL LNG IMPORT TERMINAL	8/15/2007	DIESEL EMERGENCY GENERATOR NOS. 1 & 2	DIESEL	2168	HP EACH		GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN	1.67	LB/H	HOURLY MAXIMUM	0.42	T/YR	ANNUAL MAXIMUM	0		
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	8/16/2011	EMERGENCY DIESEL GENERATOR	DIESEL	1250	HP		ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	1	G/HP-H	ANNUAL AVERAGE	0			1	G/HP-H	ANNUAL AVERAGE
*LA-0272	AMMONIA PRODUCTION FACILITY	3/27/2013	EMERGENCY DIESEL GENERATOR (2205-B)	DIESEL	1200	HP	OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/YR.	Compliance with 40 CFR 60 Subpart IIII; good combustion practices.	0			0			6.4	G/KW-HR	NOX + NMHC
*MD-0044	COVE POINT LNG TERMINAL	6/9/2014	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	1550	HP	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	USE ONLY ULSD, GOOD COMBUSTION PRACTICES, AND DESIGNED TO ACHIEVE EMISSION LIMIT	4.8	G/HP-H	COMBINED NOX + NMHC	6.4	G/KW-H	COMBINED NOX + NMHC	0		

Table D-D-3
Volatile Organic Compounds (VOC) RBLC Search - Emergency Generator
Invenery, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
MN-0071	FAIRBULT ENERGY PARK	6/5/2007	EMERGENCY GENERATOR	NO. 2	1750	KW	THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF THE 670 HP GENERATOR (LISTED AS A &IQUO;&IQUO;C ENGINE, LARGE, FUEL OIL) IN MN-0053		0.0007	LB/HP-H	3 HOUR AVERAGE	0			0		
NJ-0079	WOODBRIDGE ENERGY CENTER	7/25/2012	Emergency Generator	Ultra Low Sulfur distillate Diesel	100	H/YR	The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with 15 ppm % Sulfur by weight only	Use of ULSD oil	0.49	LB/H		0			0		
NJ-0080	HESS NEWARK ENERGY CENTER	11/1/2012	Emergency Generator	ULSD	200	H/YR		use of ULSD, a low sulfur clean fuel	2.62	LB/H		0			0		
NV-0049	HARRAHS OPERATING COMPANY, INC.	8/20/2009	SMALL INTERNAL COMBUSTION ENGINE (<600 HP) - UNIT FL12	DIESEL OIL	536	HP	UNIT FL12 IS A DETROIT DIESEL GENERATOR AT FLAMINGO LAS VEGAS. LIKE ALL THE OTHER DIESEL GENERATORS, THE UNIT IS SUBJECT TO THE LIMIT OF MONTHLY AND ANNUAL OPERATING TIMES FOR 2 HOURS PER MONTH AND 36 HOURS PER YEAR RESPECTIVELY. EMISSION FACTORS LISTED IN AP-42 ARE USED TO CALCULATE THE EMISSION LIMITS FOR EACH AND EVERY DIESEL GENERATOR IN THIS MAJOR STATIONARY SOURCE, AND ARE NOT REPEATED FURTHER FOR REPORTING THE BACT DETERMINATIONS.	THE UNIT IS EQUIPPED WITH A TURBOCHARGER.	0.0025	LB/HP-H		1.35	LB/H		0.0025	LB/HP-H	
NV-0050	MGM MIRAGE	11/30/2009	DIESEL EMERGENCY GENERATORS - UNITS CC009 THRU CC015 AT CITY CENTER	DIESEL OIL	3622	HP	THE SEVEN UNITS ARE IDENTICAL CATERPILLAR DIESEL EMERGENCY GENERATORS, EACH OF WHICH IS RATED AT 3,622 HORSEPOWER (HP). OPERATION OF EACH OF THE UNITS IS LIMITED TO ONE HOUR/DAY AND TWELVE HOURS/YEAR FOR TESTING AND MAINTENANCE PURPOSES ONLY. THE EMISSION LIMITS ARE BASED ON THE ATC PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006.	TURBOCHARGER AND GOOD COMBUSTION PRACTICES	0.0003	LB/HP-H		0.93	LB/H		0.0003	LB/HP-H	
NV-0050	MGM MIRAGE	11/30/2009	EMERGENCY GENERATORS - UNITS LX024 AND LX025 AT LUXOR	DIESEL OIL	2206	HP	THE TWO UNITS ARE IDENTICAL CATERPILLAR GENERATORS MODEL 3512C. EACH UNIT HAS A FOUR-STROKE COMPRESSION-IGNITION ENGINE RATED AT 2,206 HORSE POWER (HP). THE EMISSION LIMITS REPORTED HEREIN ARE BASED ON THE ATC PERMIT FOR MODIFICATION #10 DATED SEPTEMBER 20, 2006. EACH UNIT IS ALLOWED TO OPERATE UP TO ONE HOUR PER DAY AND FIFTY TWO HOURS PER YEAR.	TURBOCHARGER AND GOOD COMBUSTION PRACTICES	0.0003	LB/HP-H		0.71	LB/H		0.0003	LB/HP-H	
OH-0317	OHIO RIVER CLEAN FUELS, LLC	11/20/2008	EMERGENCY GENERATOR	DIESEL FUEL OIL	2922	HP	2922 MAXIMUM HORSE POWER SUBJECT TO NSPS SUBPART IIII. WILL INSTALL NON-RESETTABLE HOUR METER PRIOR TO STARTUP PER 40 CFR 60.420(A) DIESEL FUEL SHALL MEET THE REQUIREMENTS OF 40 CFR 80.510 AND 60.4207: SULFUR CONTENT OF 15 PPM MAXIMUM, CETANE INDEX OF 40 MINIMUM OR AROMATIC CONTENT OF 35 VOLUME % MAXIMUM	GOOD COMBUSTION PRACTICES AND GOOD ENGINE DESIGN Purchased certified to the standards in NSPS Subpart IIII	1.39	LB/H		0.35	T/YR	PER ROLLING 12-MONTH PERIOD	6.4	G/KW-H	FOR NMHC AND NOX COMBINED, 5% NMHC
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Emergency generator EMERGENCY DIESEL INTERNAL COMBUSTION ENGINES	diesel	2250	KW	Emergency diesel fired generator restricted to 500 hours of operation per rolling 12-months.	USE OF LOW SULFUR NO.2 FUEL OIL COMBINED WITH GOOD COMBUSTION PRACTICES AND LIMITED ANNUAL OPERATION	3.93	LB/H		0.98	T/YR	PER ROLLING 12-MONTHS	0		SEE NOTES
OK-0118	HUGO GENERATING STA	2/9/2007							0		SEE NOTE	0			0		
OK-0128	MID AMERICAN STEEL ROLLING MILL	9/8/2008	Emergency Generator	No. 2 diesel	1200	HP			0.77	LB/H		0.19	T/YR		2.87	G/HP-H	
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	EMERGENCY DIESEL GENERATOR (2200 HP)	LOW SULFUR DIESEL	2200	HP			1.55	LB/H		0			0		
PA-0271	MERCK & CO. WESTPOINT	2/23/2007	MOBILE EMERGENCY GENERATOR	DIESEL				GOOD COMBUSTION	0.32	G/HP-H		0.4	T/YR		#DIV/0!		
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T	10/10/2012	Emergency Generator	Diesel	0		The emergency generator will be restricted to operate not more than 100 hr/yr.		0.01	G/HP-H		0.03	LB/H		#DIV/0!		
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	EMERGENCY GENERATOR	Ultra Low sulfur Distillate	7.8	MMBTU/H	EMERGENCY GENERATOR (1,135 BHP - 750 KW)		0.7	LB/H		0.03	12-MONTH ROLLING TOT		69.78346154		
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Generator	ULSD Fuel oil # 2	0		Emergency Generator is rated at 670 BHP and is limited to 500 hr per year (emergency and testing and maintenance, combined)	Is certified by the manufacturer to meet the emission standards required by 40 CFR Part 89, Subpart B Table 1 for non-road compression ignition engines.	0.15	G/HP-H		0.22	LB/H		#DIV/0!		
SC-0113	PYRAMAX CERAMICS, LLC	2/8/2012	EMERGENCY ENGINE 1 THRU 8	DIESEL	29	HP	THE CONSTRUCTION PERMIT AUTHORIZES THE CONSTRUCTION OF EIGHT (8) IDENTICAL EMERGENCY ENGINES. THIS PROCESS AND POLLUTANT INFORMATION IS FOR ONE SINGLE ENGINE.	PURCHASE OF CERTIFIED ENGINES. HOURS OF OPERATION LIMITED TO 100 HOURS FOR MAINTENANCE AND TESTING.	7.5	G/KW-H		0			0		
SC-0113	PYRAMAX CERAMICS, LLC	2/8/2012	EMERGENCY GENERATORS 1 THRU 8	DIESEL	757	HP	THE CONSTRUCTION PERMIT AUTHORIZES THE CONSTRUCTION OF EIGHT (8) IDENTICAL EMERGENCY GENERATORS. THIS PROCESS AND POLLUTANT INFORMATION IS FOR ONE SINGLE EMERGENCT GENERATOR.	PURCHASE ENGINES CERTIFIED TO COMPLY WITH NSPS, SUBPART IIII.	4	G/KW-H		0			0		
SC-0114	GP ALLENDALE LP	11/25/2008	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.		0.32	LB/H		0.08	T/YR		1.04	G/HP-H	
SC-0115	GP CLARENDON LP	2/10/2009	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.	TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.	0.32	LB/H		0.08	T/YR		1.04	G/HP-H	
*SC-0132	ARGOS HARLEYVILLE PLANT	12/14/2007	EMERGENCY GENERATOR	DIESEL	1000	KW			0			0			0		
SC-0159	US10 FACILITY	7/9/2012	EMERGENCY GENERATORS, GEN1, GEN2	DIESEL	1000	KW	(2) 1,000 KW EMERGENCY GENERATORS THAT ARE OPERATED A TOTAL OF 100 HOURS PER YEAR OR LESS FOR TESTING AND MAINTENANCE.	BACT HAS BEEN DETERMINED TO BE COMPLIANCE WITH NSPS, SUBPART IIII, 40 CFR60.4202 AND 40 CFR60.4205.	6.4	G/KW-H		0			0		

Table D-D-3
Volatile Organic Compounds (VOC) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION	
*TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	4/1/2015	Emergency Diesel Generator	Diesel	1500	hp	The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500 horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides (NOx) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited hours of operation. Emissions from the engine shall not exceed 0.0218 grams per horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52 hours per year of non-emergency operation. Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide (CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra-low sulfur diesel). The engine is limited to 52 hours per year of non-emergency operation. Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engine and 40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines.	Minimized hours of operations Tier II engine	0.7	LB/H			0.02	T/YR		0		
*WV-0025	MOUNDSVILLE COMBINED CYCLE POWER PLANT	11/21/2014	Emergency Generator	Diesel	2015.7	HP	Nominal 1,500 kW. Limited to 100 hours/year.		1.24	LB/H			0		0			

**Table D-D-4
Particulate Matter (PM) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project**

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	Black Start and Emergency Internal Combustion Engines	Diesel	1500	kWe	Two (2) 600 kWe black start diesel generators and four (4) 1,500 kWe emergency diesel generators.	Clean Fuel and Good Combustion Practices	0.25	G/KW-HR	3-HOUR AVERAGE	0			0		
*AL-0318	TALLADEGA SAWMILL	12/18/2017	250 Hp Emergency CL Diesel-fired RICE	Diesel	0		Emergency Only		0			0			0		
FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	3/9/2016	Three 3300-kW ULSD emergency generators	ULSD	0		BACT limits equal to NSPS Subpart IIII limits. Will use IIII certified engine.	Use of clean fuel	0.2	G / KW-HR		0			0		
*FL-0363	DANIA BEACH ENERGY CENTER	12/4/2017	Two 3300 kW emergency generators	ULSD	0		Two ULSD-fueled emergency engines. BACT = Subpart IIII limits.	Clean fuel	0.2	GRAMS PER KWH		0			0		
IN-0263	MIDWEST FERTILIZER COMPANY LLC	3/23/2017	EMERGENCY GENERATORS (EU0144 AND EU-014B)	DISTILLATE OIL	3600	HP EACH		GOOD COMBUSTION PRACTICES	0.15	G/HP-H EACH	3 HOUR AVERAGE	500	H/YR EACH		0		
MI-0421	GRAYLING PARTICLEBOARD	8/26/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in FGRICE).	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	1.41	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME	0.2	G/KW-H	TEST PROTOCOL WILL SPECIFY AVG TIME	0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUEMENGINE (Diesel fuel emergency engine)	Diesel Fuel	22.68	MMBTU/H	a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted to 4 hours/day, except during emergency conditions and stack testing, and 500 hours/year on a 12-month rolling time period basis.	Good combustion practices and meeting NSPS Subpart IIII requirements.	0.2	G/KW-H	TEST PROTOCOL WILL SPECIFY AVG TIME	0			0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUPPENGINE (Emergency engine--diesel fire pump)	Diesel	1.66	MMBTU/H	A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Powers a fire pump used for a back up during an emergency (EUPPENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100 hours/year on a 12-month rolling time period basis.	Good combustion practices and meeting NSPS Subpart IIII requirements.	0.15	G/BHP-H	TEST PROTOCOL WILL SPECIFY AVG TIME.	0			0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	EUEMRGRICE1 in FGRICE (Emergency diesel generator engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE1 in FGRICE).	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	0.66	LB/H	TEST PROTOCOL SHALL SPECIFY	0.2	G/KW-H	TEST PROTOCOL SHALL SPECIFY	0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	EUEMRGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE2 in FGRICE).	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	0.22	LB/H	TEST PROTOCOL SHALL SPECIFY	0.2	G/KW-H	TEST PROTOCOL SHALL SPECIFY	0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (North Plant): Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.2	G/KW-H	HOURLY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (South Plant): Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Diesel particulate filter, good combustion practices and meeting NSPS IIII requirements.	0.2	G/KW-H	HOURLY	0			0		
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	EUEMENGINE: Emergency engine	Diesel	2	MW	A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to NSPS IIII.	State of the art combustion design	0.2	G/KW-H	HOURLY	0			0		
NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/10/2016	Diesel Fired Emergency Generator	ULSD	44	H/YR		use of ULSD a clean burning fuel, and limited hours of operation	0.26	LB/H		0			0		
*PA-0310	CPV FAIRVIEW ENERGY CENTER	9/2/2016	Emergency Generator Engines	ULSD	0		(2) 1500 kW emergency diesel genset. Emission limitations are for each genset and fuel is restricted to ULSD (15 ppm) and each is restricted to 100 hrs on a 12-month rolling basis.		0.15	G/BHP-HR		0			0		
AK-0071	INTERNATIONAL STATION POWER PLANT	12/20/2010	Caterpillar 3215C Black Start Generator (1)	ULSD	1500	KW-e		Good Combustion Practices	0.03	G/HP-H	INSTANTANEOUS	0			0		
AL-0251	HILLABEE ENERGY CENTER	9/24/2008	EMERGENCY GENERATOR DIESEL FIRED	DIESEL	600	EKW		LOW SULFUR DIESEL FUEL	0			0			0		
*AL-0301	NUCOR STEEL TUSCALOOSA, INC.	7/22/2014	EMERGENCY GENERATOR	DIESEL	800	HP			0.0007	LB/HP-H		0			0		
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	3/11/2010	EMERGENCY ENGINE	DIESEL	2000	KW	2000 KW (2,683 hp) engine	OPERATIONAL RESTRICTION OF 50 HR/YR; USE OF ULTRA LOW SULFUR FUEL NOT TO EXCEED 15 PPMVD FUEL SULFUR	0.2	G/KW-H		0.15	G/HP-H		0		
CA-1212	PALMDALE HYBRID POWER PROJECT	10/18/2011	EMERGENCY IC ENGINE	DIESEL	2683	HP	UNIT IS 2000 KW.	USE ULTRA LOW SULFUR FUEL	0.2	G/KW-H		0.15	G/HP-H		0		
FL-0322	SWEET SORGHUM-TO-ETHANOL ADVANCED BIOREFINERY	12/23/2010	Emergency Generators, Two 2682 HP EA	ULSD	0		Two emergency generators, each rated at 2,000 kW, will be installed to provide backup electrical power in the event of a power outage at the SRF facility. The engines will fire ULSD fuel oil or propane and each will be limited to 500 hours per year of operation during emergencies. Each unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. Each engine will be designed to meet USEPA60% emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2006 or later.		0.2	G/KW-H		0			0		
*FL-0328	ENI - HOLY CROSS DRILLING PROJECT	10/27/2011	Emergency Engine	Diesel	0		MAN D-2842 LE model engine	Use of good combustion practices, based on the current manufacturer's specifications for this engine	0.03	T/YR	12-MONTH ROLLING	0			0		
FL-0332	HIGHLANDS BIOREFINERY AND COGENERATION PLANT	9/23/2011	2000 KW Emergency Equipment		0		One emergency generator rated at 2,000 kW (2,682 HP) will be installed to provide backup electrical power in the event of a power outage at the HEP facility. The generator will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation during emergencies. The unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPA60% emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2006 or later.	See Pollutant Notes.	0.2	G/KW-H		0			0		

**Table D-D-4
Particulate Matter (PM) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project**

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
FL-0332	HIGHLANDS BIOREFINERY AND COGENERATION PLANT	9/23/2011	600 HP Emergency Equipment	Ultra-Low Sulfur Oil		0	One 600 hp diesel fire pump engine will be installed to provide firewater during power outages. This unit will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation. This unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPA's 10% emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2009 or later.	See Pollutant Notes.	0.15	G/HP-H			0			0	
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - Development Driller 1	Diesel		2229 hp		Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	0.03	T/YR	PER YEAR 12 MONTH ROLLING TOTAL		0			0	
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - C.R. Luigs	diesel		2064 hp	Caterpillar D3516A 1998	Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	0.04	T/YR	PER YEAR 12 MONTH ROLLING TOTAL		0			0	
*FL-0346	LAUDERDALE PLANT	4/22/2014	Four 3100 kW black start emergency generators	ULSD		2.32 MMBtu/hr (HHV) per engine	Fired with ULSD	Good combustion practice	0.2	G/KW-H			0			0	
*FL-0346	LAUDERDALE PLANT	4/22/2014	Emergency fire pump engine (300 HP)	USLD		29 MMBtu/hr	Emergency engine. BACT = NSPS IIII.	Good combustion practice	0.2	G/HP-H			0			0	
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Main Propulsion Generator Diesel Engines	Diesel		9910 hp	Four 1998 Wartsila 18V32LNE 9910 hp and Two 1998 Wartsila 12V32LNE 6610 hp	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0.43	G/KW-H	ROLLING 24 HOUR AVERAGE		0			0	
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Emergency Diesel Engine	Diesel		3300 hp	1998 Wartsila 6R32LNE	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0				0			0	
IA-0088	ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	EMERGENCY GENERATOR	DIESEL		1500 KW	THREE 1,500 KW EMERGENCY GENERATORS ARE BEING INSTALLED AS A PART OF THIS PROJECT. PERMITS 07-A-542-P, 07-A-576-P AND 07-A-577-P. THE PROJECT ALSO INCLUDES THE INSTALLATION OF ONE 2,000 KW EMERGENCY GENERATOR. PERMIT 07-A-578-P. ALL FOUR EMERGENCY GENERATORS HAVE THE SAME SHORT TERM BACT LIMITS AND DIFFERENT TON/YR BACT LIMITS.	NO SPECIFIC CONTROL TECHNOLOGY IS SPECIFIED. ENGINE IS REQUIRED TO MEET LIMITS ESTABLISHED AS BACT (TIER 2 NONROAD). THIS COULD REQUIRE ANY NUMBER OF CONTROL TECHNOLOGIES AND OPERATIONAL REQ. TO MEET THE BACT STANDARD.	0.15	G/HP-H	AVERAGE OF 3 TEST RUNS	0.17	T/YR			12-MONTH ROLLING TOTAL	0
IA-0095	TATE & LYLE INGREDIENTS AMERICAS, INC.	9/19/2008	EMERGENCY GENERATOR	DIESEL		700 KW			0.2	G/KW-H	AVERAGE OF THREE STACK TEST RUNS	0.08	T/YR			12-MONTH ROLLING TOTAL	0
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012	Emergency Generator	diesel fuel		142 GAL/H	rated @ 2,000 KW	good combustion practices	0.2	G/KW-H	AVERAGE OF 3 STACK TEST RUNS	0.22	T/YR			ROLLING 12 MONTH TOTAL	0
*IA-0106	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN COMPLEX	7/12/2013	Emergency Generators	diesel fuel		180 GAL/H	There are two (2) identically sized generators.	good combustion practices	0.2	G/KW-H	AVERAGE OF THREE (3) STACK TEST RUNS	0.02	T/YR			ROLLING TWELVE (12) MONTH TOTAL	0
ID-0017	POWER COUNTY ADVANCED ENERGY CENTER	2/10/2009	2 MW EMERGENCY GENERATOR, SRC25	ASTM #1, 2, DIESEL		2000 KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	ULSD FUEL, GOOD COMBUSTION PRACTICES, EPA CERTIFIED PER NSPS IIII	0		SEE NOTE	0				0	
ID-0017	POWER COUNTY ADVANCED ENERGY CENTER	2/10/2009	500 KW EMERGENCY GENERATOR, FIRE PUMP, SRC26	ASTM #1, 2, DIESEL		500 KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	ULSD FUEL, EPA CERTIFICATION PER NSPS IIII	0		SEE NOTE	0				0	
ID-0018	LANGLEY GULCH POWER PLANT	6/25/2010	EMERGENCY GENERATOR ENGINE	DIESEL		750 KW	COMPRESSION IGNITION INTERNAL COMBUSTION (C I C E)	TIER 2 ENGINE-BASED, GOOD COMBUSTION PRACTICES (GCP)	0.2	G/KW-H		0				0	
*IL-0114	CRONUS CHEMICALS, LLC	9/5/2014	Emergency Generator	distillate fuel oil		3755 HP		Tier IV standards for non-road engines at 40 CFR 1039.102, Table 7.	0.1	G/KW-H		0				0	
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	TWO (2) EMERGENCY DIESEL GENERATORS	DIESEL		1006 HP EACH	THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND EG02, EXHAUST THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H			500 HOURS OF OPERATIO N	YEARLY		0	
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	EMERGENCY DIESEL GENERATOR	DIESEL		2012 HP	THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1) VENT.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	3 HOURS		500 HOURS OF OPERATIO N	YEALRY		0	
*IN-0166	INDIANA GASIFICATION, LLC	6/27/2012	TWO (2) EMERGENCY GENERATORS	DIESEL		1341 EACH	IDENTIFIED AS EU-009A AND EU-009B	USE OF LOW-S DIESEL AND LIMITED HOURS OF NON-EMERGENCY OPERATION		PPM 15 SULFUR		0				0	
*IN-0173	MIDWEST FERTILIZER CORPORATION	6/4/2014	DIESEL FIRED EMERGENCY GENERATOR	NO. 2, DIESEL		3600 BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE	0				0	
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	DIESEL FIRED EMERGENCY GENERATOR	NO. 2 FUEL OIL		4690 B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE	0				0	
*IN-0180	MIDWEST FERTILIZER CORPORATION	6/4/2014	DIESEL FIRED EMERGENCY GENERATOR	NO. 2, DIESEL		3600 BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE	0				0	

Table D-D-4
Particulate Matter (PM) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*MD-0042	WILDCAT POINT GENERATION FACILITY	4/8/2014	EMERGENCY GENERATOR 1	ULTRA LOW SULFU DIESEL	2250	KW	40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OPERATION, AND DESIGNED TO ACHIEVE EMISSION LIMITS	0.15	G/HP-H		0.2	G/KW-H			0	
*MD-0044	COVE POINT LNG TERMINAL	6/9/2014	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	1550	HP	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES AND DESIGNED TO ACHIEVE EMISSION LIMITS	0.15	G/HP-H		0.2	G/KW-H			0	
MI-0389	KARN WEADOCK GENERATING COMPLEX	12/29/2009	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	2000	KW	2980 HP. OPERATIONAL LIMITS: 1 HR/DAY, 500 HRS/YR FOR PM2.5 NAAQS.	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL.	0.2	G/KW-H	TEST METHOD TEST PROTOCOL: BACT/SIP/NSPS	0				0	
*MI-0400	WOLVERINE POWER	6/29/2011	Emergency generator	Diesel	4000	HP	Maximum operation was based on 500 hours per year.		0.15	G/HP-H		0				0	
MN-0071	FAIRBAULT ENERGY PARK	6/5/2007	EMERGENCY GENERATOR	NO. 2	1750	KW	THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF THE 670 HP GENERATOR (LISTED AS A «IC ENGINE, LARGE, FUEL OIL) IN MN-0053		0.0007	LB/HP-H	3 HOUR	0				0	
NJ-0080	HESS NEWARK ENERGY CENTER	11/1/2012	Emergency Generator	ULSD	200	H/YR		use of ULSD, a low sulfur clean fuel	0.59	LB/H		0				0	
NY-0101	CORNELL COMBINED HEAT & POWER PROJECT	3/12/2008	EMERGENCY DIESEL GENERATORS (2)	LOW SULFUR DIESEL	1000	KW	TWO (2) GENERATORS LIMITED TO 800 HOURS FOR BOTH ANNUALLY	ULTRA LOW SULFUR DIESEL AT 15 PPM S.	0.19	LB/H	1 HOUR AVG	20	% OPACITY		0.00	G/KW-H	
PA-0271	MERCK & CO. WESTPOINT	2/23/2007	MOBILE EMERGENCY GENERATOR	DIESEL					0.16	G/HP-H		0.2	T/YR			0	
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	EMERGENCY GENERATOR	Ultra Low sulfur Distillate	7.8	MMBTU/H	EMERGENCY GENERATOR (1,135 BHP - 750 KW)		0.02	T/YR	12-MONTH ROLLING TOTAL	0				0	
*PA-0292	ML 35 LLC/PHILA CYBERCENTER	6/1/2012	DIESEL GENERATOR (2.25 MW EACH) - 5 UNITS	#2 Oil	0		Engines are equipped with SCR and CO Oxidation catalyst		0.28	LB/H		0.03	T/YR	AS A 12-MONTH ROLLING		0	
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Generator	ULSD Fuel oil # 2	0		Emergency Generator is rated at 670 BHP and is limited to 500 hr per year (emergency and testing and maintenance, combined)		0.15	G/HP-H		0.22	LB/H			0	
SC-0114	GP ALLENDALE LP	11/25/2008	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.		0.25	LB/H		0.06	T/YR		0.00	G/HP-H	
SC-0115	GP CLARENDON LP	2/10/2009	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.	TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.	0.25	LB/H		0.06	T/YR		0.00	G/HP-H	
*SD-0005	DEER CREEK STATION	6/29/2010	Emergency Generator	Distillate Oil	2000	Kilowatts			0			0				0	
*TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	4/1/2015	Emergency Diesel Generator	Diesel	1500	hp	The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500 horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides (NOx) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited hours of operation. Emissions from the engine shall not exceed 0.0218 grams per horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52 hours per year of non-emergency operation. Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide (CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra-low sulfur diesel). The engine is limited to 52 hours per year of non-emergency operation. Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engine and 40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines.	Minimized hours of operations Tier II engine	0.15	LB/H		0.01	T/YR			0	

**Table D-D-5
Particulate Matter, 10 Microns (PM₁₀) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project**

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	250 Hp Emergency CI Diesel-fired RICE	Diesel	1500	kWe	Two (2) 600 kW black start diesel generators and four (4) 1,500 kW emergency diesel generators.	Clean Fuel and Good Combustion Practices	0.25	G/KW-HR	3-HOUR AVERAGE	0			0		
*AL-0318	TALLADEGA SAWMILL	12/18/2017	EMERGENCY GENERATORS (EU014A AND EU- 014B)	Diesel	0		Emergency Only		0			0			0		
IN-0263	MIDWEST FERTILIZER COMPANY LLC	3/23/2017	Diesel Engines (Emergency)	DISTILLATE OIL	3600	HP EACH		GOOD COMBUSTION PRACTICES	0.15	G/HP-H EACH	3 HOUR AVERAGE	500	H/YR EACH		0		
LA-0305	LAKE CHARLES METHANOL FACILITY	6/30/2016	DEG1-13 - Diesel Fired Emergency Generator Engine (EOT0012)	Diesel	4023	hp		Complying with 40 CFR 60 Subpart IIII	0			0			0		
*LA-0312	ST. JAMES METHANOL PLANT	6/30/2017	SCPS Emergency Diesel Generator 1	Diesel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII	0.08	LB/HR		0			0		
LA-0313	ST. CHARLES POWER STATION	8/31/2016	emergency generator engines (6 units)	Diesel	2584	HP		Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel).	0.86	LB/H	HOURLY MAXIMUM	0.21	T/YR	ANNUAL MAXIMUM	0		
LA-0316	CAMERON LNG FACILITY	2/17/2017	Emergency Generator Engines (4 units)	diesel	3353	hp		Complying with 40 CFR 60 Subpart IIII	0			0			0		
LA-0317	METHANEX - GEISMAR METHANOL PLANT	12/22/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	0		I-GDE-1201, II-GDE-1201 = 2346 hp I-GDE-1202 = 755 hp I-GDE-1203 = 1193 hp	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	0			0			0		
MI-0421	GRAYLING PARTICLEBOARD	8/26/2016	EUEMENGINE (Diesel fuel emergency engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in FGRICE).	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	1.41	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME.	0			0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUPPENGINE (Emergency engine-- diesel fire pump)	Diesel Fuel	22.68	MMBTU/H	a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted to 4 hours/day, except during emergency conditions and stack testing, and 500 hours/year on a 12-month rolling time period basis.	Good combustion practices.	1.58	LB/H	HOURLY	0			0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUEMRGRICE1 in FGRICE (Emergency diesel generator engine)	Diesel	1.66	MMBTU/H	A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Powers a fire pump used for a back up during an emergency (EUPPENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100 hours/year on a 12-month rolling time period basis.	Good combustion practices	0.57	LB/H	HOURLY	0			0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	EUEMRGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE1 in FGRICE).	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	0.66	LB/H	TEST PROTOCOL SHALL SPECIFY	0			0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	EUEMENGINE (North Plant) Emergency Engine	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE2 in FGRICE).	Certified engines. Good design, operation and combustion practices. Operational restrictions/limited use.	0.22	LB/H	TEST PROTOCOL SHALL SPECIFY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (South Plant) Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (KW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.54	LB/H	HOURLY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE: Emergency engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.54	LB/H	HOURLY	0			0		
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	Diesel Fired Emergency Generator	Diesel	2	MW	A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to NSPS IIII.	State of the art combustion design	1.18	LB/H	HOURLY	0			0		
NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/10/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	ULSD	44	H/YR		use of ULSD a clean burning fuel, and limited hours of operation	0.26	LB/H		0			0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	PROPANE-FIRED EMERGENCY GENERATORS 150 kW (2)	DIESEL FUEL	0			Ultra Low Sulfur Diesel/Fuel (15 ppm max)	0.4	G/KW	PER HR	1	T/YR	12 MO ROLLING TOTAL	0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	Emergency Generator - ESDG14	PROPANE	0				0.19	G/HP-H	PER HR	0			0		
WV-0027	INWOOD	9/15/2017	ULSD	ULSD	900	bhp	Used to supply power to the facility in the event of power loss	ULSD	0.2	G/HP-HR		0			0		
AK-0071	INTERNATIONAL STATION POWER PLANT	12/20/2010	Caterpillar 3215C Black Start Generator (1)	ULSD	1500	KW-e		Good Combustion Practices	0.03	G/HP-H	INSTANTANEOU S	0			0		
AK-0073	INTERNATIONAL STATION POWER PLANT	12/20/2010	Fuel Combustion	Diesel	1500	kW-e	EU 13 Black Start Engine	Black Start diesel fired engine EU 13 shall be equipped with turbo charging and after cooling. The turbo charger reduces NOx emissions by boosting the pressure and temperature of the air entering the engine allowing more fuel to be added to increase power output. This translates into higher combustion efficiency and reduced emissions.	0.03	G/HP-H		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Emergency Camp Generators	Ultra Low Sulfur Diesel	2695	hp	Three 2,695 hp ULSD-fired Standby Camp Generator Engines.		0.15	G/HP-H		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Bulk Tank Generator Engines	Ultra Low Sulfur Diesel	891	hp	Two ULSD-fired 891 hp Bulk Tank Storage Area Generator Engines		0.15	G/HP-H		0			0		

**Table D-D-5
Particulate Matter, 10 Microns (PM₁₀) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project**

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
CA-1212	PALMDALE HYBRID POWER PROJECT	10/18/2011	EMERGENCY IC ENGINE	DIESEL	2683	HP	UNIT IS 2000 KW.	USE ULTRA LOW SULFUR FUEL	0.2	G/KW-H		0.15	G/HP-H		0		
FL-0310	SHADY HILLS GENERATING STATION	1/12/2009	2.5 MW EMERGENCY GENERATOR	ULTRA LOW S OIL	2.5	MW	MAXIMUM HOURS OF OPERATION: 500 HRS/YR	FIRING ULSD WITH A MAXIMUM SULFUR CONTENT OF 0.0015% BY WEIGHT AND A MAXIMUM HOURS OF OPERATION OF 500 HOUR/YR.	0.4	G/HP-H	NA /RECORDKEEPI NG	0			0		
FL-0310	SHADY HILLS GENERATING STATION	1/12/2009	2.5 MW EMERGENCY GENERATOR	ULTRA LOW S OIL	2.5	MW	MAXIMUM HOURS OF OPERATION: 500 HRS/YR	FIRING ULSD WITH A MAXIMUM SULFUR CONTENT OF 0.0015% BY WEIGHT AND A MAXIMUM HOURS OF OPERATION OF 500 HOUR/YR.	0.4	G/HP-H	NA /RECORDKEEPI NG	0			0		
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - Development Driller	Diesel	2229	hp		Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	0.03	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - C.R. Lujes	diesel	2064	hp	Caterpillar D3516A 1998	Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	0.02	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Main Propulsion Generator Diesel Engines	Diesel	9910	hp	Four 1998 Wartsila 18V32LNE 9910 hp and Two 1998 Wartsila 12V32LNE 6610 hp	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0.24	G/KW-H	ROLLING 24 HOUR AVERAGE	0			0		
IA-0088	ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	EMERGENCY GENERATOR	DIESEL	1500	KW	THREE 1,500 KW EMERGENCY GENERATORS ARE BEING INSTALLED AS A PART OF THIS PROJECT. PERMITS 07-A-542-P, 07-A-576-P AND 07-A- 577-P. THE PROJECT ALSO INCLUDES THE INSTALLATION OF ONE 2,000 KW EMERGENCY GENERATOR. PERMIT 07-A-578-P. ALL FOUR EMERGENCY GENERATORS HAVE THE SAME SHORT TERM BACT LIMITS AND DIFFERENT TON/YR BACT LIMITS.		0.15	G/HP-H	AVERAGE OF 3 TEST RUNS	0.17	T/YR	12-MONTH ROLLING TOTAL	0		
IA-0095	TATE & LYLE INGREDIENTS AMERICAS, INC.	9/19/2008	EMERGENCY GENERATOR	DIESEL	700	KW			0.2	G/KW-H	AVERAGE OF THREE STACK TEST RUNS	0.08	T/YR	12-MONTH ROLLING TOTAL	0		
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012	Emergency Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	0.2	G/KW-H	AVERAGE OF 3 STACK TEST RUNS	0.22	T/YR	ROLLING 12 MONTH TOTAL	0		
*IA-0106	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN COMPLEX	7/12/2013	Emergency Generators	diesel fuel	180	GAL/H	There are two (2) identically sized generators.	good combustion practices	0.2	G/KW-H	AVERAGE OF THREE (3) STACK TEST RUNS	0.02	T/YR	ROLLING TWELVE (12) MONTH TOTAL	0		
ID-0017	POWER COUNTY ADVANCED ENERGY CENTER	2/10/2009	2 MW EMERGENCY GENERATOR, SRC25	ASTM #1, 2, DIESEL	2000	KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	ULSD FUEL, GOOD COMBUSTION PRACTICES, EPA CERTIFIED PER NSPS IIII	0		SEE NOTE	0			0		
ID-0017	POWER COUNTY ADVANCED ENERGY CENTER	2/10/2009	500 KW EMERGENCY GENERATOR, FIRE PUMP, SRC26	ASTM #1, 2, DIESEL	500	KW	LIMITED TO 100 H/YR FOR ROUTINE TESTING AND MAINTENANCE	ULSD FUEL, EPA CERTIFICATION PER NSPS IIII	0		SEE NOTE	0			0		
*IL-0114	CRONUS CHEMICALS, LLC	9/5/2014	Emergency Generator	distillate fuel oil	3755	HP		Tier IV standards for non-road engines at 40 CFR 1039.102, Table 7.	0.1	G/KW-H		0			0		
*IN-0158	ST. JOSEPH ENRGY CENTER, LLC	12/3/2012	TWO (2) EMERGENCY DIESEL GENERATORS	DIESEL	1006	HP EACH	THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND EG02, EXHAUST THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	3 HOURS	500 N	HOURS OF OPERATIO N	YEARLY	0		
*IN-0158	ST. JOSEPH ENRGY CENTER, LLC	12/3/2012	EMERGENCY DIESEL GENERATOR	DIESEL	2012	HP	THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1) VENT.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	3 HOURS	500 N	HOURS OF OPERATIO N	YEALRY	0		
*IN-0166	INDIANA GASIFICATION, LLC	6/27/2012	TWO (2) EMERGENCY GENERATORS	DIESEL	1341	EACH	HORSEPOWER, IDENTIFIED AS EU-009A AND EU-009B	USE OF LOW-SULFUR DIESEL AND LIMITED HOURS OF NON- EMERGENCY OPERATION	15	PPM SULFUR		0			0		
*IN-0173	MIDWEST FERTILIZER CORPORATION	6/4/2014	DIESEL FIRED EMERGENCY GENERATOR	NO. 2, DIESEL	3600	BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE	0			0		
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	DIESEL FIRED EMERGENCY GENERATOR	NO. 2 FUEL OIL	4690	B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE	0			0		
*IN-0180	MIDWEST FERTILIZER CORPORATION	6/4/2014	DIESEL FIRED EMERGENCY GENERATOR	NO. 2, DIESEL	3600	BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE	0			0		
LA-0211	GARYVILLE REFINERY	12/27/2006	EMERGENCY GENERATORS (DOCK & TANK FARM) (21- 08 & 22-08)	DIESEL	1341	HP	21-08: 1341 HP 22-08: 671 HP GENERATORS PERMITTED FOR 182 H/YR EA.	USE OF DIESEL WITH A SULFUR CONTENT OF 15 PPMV OR LESS	0.0022	LB/HP-H	ANNUAL AVERAGE	0			0		

RBLCD	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION	
LA-0219	CREOLE TRAIL LNG IMPORT TERMINAL	8/15/2007	DIESEL EMERGENCY GENERATOR NOS. 1 & 2	DIESEL	2168	HP EACH		GOOD COMBUSTION PRACTICES, GOOD ENGINE DESIGN, AND USE OF LOW SULFUR AND LOW ASH DIESEL	0.69	LB/H	HOURLY MAXIMUM	0.17	T/YR	ANNUAL MAXIMUM	0			
LA-0231	LAKE CHARLES GASIFICATION FACILITY	6/22/2009	EMERGENCY DIESEL POWER GENERATOR ENGINES (2)	DIESEL	1341	HP EACH		COMPLY WITH 40 CFR 60 SUBPART III	0.06	LB/H	MAXIMUM (EACH)	0.02	G/HP-H		0			
LA-0251	FLOPAM INC. FACILITY	4/26/2011	Large Generator Engines (17 units)	Diesel	0		11 units: 591 hp 6 units: 1175 hp		0.01	LB/H		0.2	G/KW-H					
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	8/16/2011	EMERGENCY DIESEL GENERATOR	DIESEL	1250	HP		ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	ANNUAL AVERAGE	0			0.15	G/HP-H	ANNUAL AVERAGE	
*LA-0272	AMMONIA PRODUCTION FACILITY	3/27/2013	EMERGENCY DIESEL GENERATOR (2305-B)	DIESEL	1200	HP	OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/YR.	Compliance with 40 CFR 60 Subpart III;; good combustion practices.	0			0			0.2	G/KW-HR		
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	1/30/2014	Emergency Engine/Generator	ULSD	7.4	MMBTu/hr	8%± 300 hours of operation per 12-month rolling period S in ULSD: 8%±0.0015% by weight		0.15	G/HP-H	1 HR BLOCK AVERAGE	0.36	LB/H	1 HR BLOCK AVERAGE	0			
*MD-0042	WILDCAT POINT GENERATION FACILITY	4/8/2014	EMERGENCY GENERATOR 1	ULTRA LOW SULFU DIESEL	2250	KW	40 CFR 60 SUBPART III, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OPERATION, AND DESIGNED TO ACHIEVE EMISSION LIMITS	0.15	G/HP-H		0.23	G/KW-H		0			
*MD-0042	WILDCAT POINT GENERATION FACILITY	4/8/2014	EMERGENCY DIESEL ENGINE FOR FIRE WATER PUMP	ULTRA LOW SULFUR DIESEL	477	HP	40 CFR 60, SUBPART III, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OPERATION, AND DESIGNED TO ACHIEVE EMISSION LIMITS	0.15	G/HP-H		0.23	G/KW-H		0			
*MD-0043	PERRYMAN GENERATING STATION	7/1/2014	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	1300	HP	40 CFR 60 SUBPART III, GOOD COMBUSTION PRACTICES	GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OPERATION, AND EXCLUSIVE USE OF ULSD	0.17	G/HP-H	CONDENSIBLE + FILTERABLE	0.15	G/HP-H	FILTERABLE	0			
*MD-0044	COVE POINT LNG TERMINAL	6/9/2014	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	1550	HP	40 CFR 60, SUBPART III, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES AND DESIGNED TO ACHIEVE EMISSION LIMITS	0.17	G/HP-H		0.23	G/KW-H		0			
MI-0389	KARN WEADOCK GENERATING COMPLEX	12/29/2009	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	2000	KW	2980 HP. OPERATIONAL LIMITS: 1 HR/DAY, 500 HRS/YR FOR PM2.5 NAAQS	ENGINE DESIGN AND OPERATION. 15 PPM SULFUR FUEL	0.0573	LB/MMBTU	TEST METHOD	0			0			
*MI-0400	WOLVERINE POWER	6/29/2011	Turbine generator (EUBLACKSTART)	Diesel	540	MMBTU/H	This is a turbine generator identified in the permit as EUBLACKSTART. It has a throughput capacity of 540MMBTU/HR which equates to 102 MW. The maximum operation was based on 500 hours per year.		0.03	LB/MMBTU	TEST PROTOCOL	16.2	LB/H	TEST PROTOCOL	0			
*MI-0400	WOLVERINE POWER	6/29/2011	Emergency generator	Diesel	4000	HP	Maximum operation was based on 500 hours per year.		1.76	LB/H		0			0			
MN-0071	FAIRBAULT ENERGY PARK	6/5/2007	EMERGENCY GENERATOR	NO. 2	1750	KW	THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF THE 670 HP GENERATOR (LISTED AS A “C” ENGINE, LARGE, FUEL OIL) IN MN-0053		0.0004	LB/HP-H	3 HOUR	0			0			
NJ-0079	WOODBRIDGE ENERGY CENTER	7/25/2012	Emergency Generator	Ultra Low Sulfur distillate Diesel	100	H/YR	The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with 15 ppm % Sulfur by weight only	Use of ULSD oil	0.13	LB/H		0			0			
NJ-0080	HESS NEWARK ENERGY CENTER	11/1/2012	Emergency Generator	ULSD	200	H/YR			0.66	LB/H		0			0			
NV-0049	HARRAHS OPERATING COMPANY, INC.	8/20/2009	SMALL INTERNAL COMBUSTION ENGINE (“FL12 DIESEL - UNIT FL12 DIESEL	DIESEL OIL	536	HP	UNIT FL12 IS A DETROIT DIESEL GENERATOR AT FLAMINGO LAS VEGAS. LIKE ALL THE OTHER DIESEL GENERATORS, THE UNIT IS SUBJECT TO THE LIMIT OF MONTHLY AND ANNUAL OPERATING TIMES FOR 2 HOURS PER MONTH AND 36 HOURS PER YEAR RESPECTIVELY. EMISSION FACTORS LISTED IN AP-42 ARE USED TO CALCULATE THE EMISSION LIMITS FOR EACH AND EVERY DIESEL GENERATOR IN THIS MAJOR STATIONARY SOURCE, AND ARE NOT REPEATED FURTHER FOR REPORTING THE BACT DETERMINATION. THE SEVEN UNITS ARE IDENTICAL CATERPILLAR DIESEL EMERGENCY GENERATORS, EACH OF WHICH IS RATED AT 3,622 HORSEPOWER (HP). OPERATION OF EACH OF THE UNITS IS LIMITED TO ONE HOUR/DAY AND TWELVE HOURS/YEAR FOR TESTING AND MAINTENANCE PURPOSES ONLY. THE EMISSION LIMITS ARE BASED ON THE ATC PERMIT FOR MODIFICATION #8 DATED MARCH 30, 2006. THE TWO UNITS ARE IDENTICAL CATERPILLAR GENERATORS MODEL 3512C. EACH UNIT HAS A FOUR-STROKE COMPRESSION-IGNITION ENGINE RATED AT 2,206 HORSE POWER (HP). THE EMISSION LIMITS REPORTED HEREIN ARE BASED ON THE ATC PERMIT FOR MODIFICATION #10 DATED SEPTEMBER 20, 2006. EACH UNIT IS ALLOWED TO OPERATE UP TO ONE HOUR PER DAY AND FIFTY TWO HOURS PER YEAR.	THE UNIT IS EQUIPPED WITH A TURBOCHARGER.	0.0022	LB/HP-H	1.18	LB/H		0.0022	LB/HP-H			
NV-0050	MGM MIRAGE	11/30/2009	EMERGENCY GENERATORS - UNITS CC009 THRU CC015 AT CITY CENTER	DIESEL OIL	3622	HP		TURBOCHARGER AND GOOD COMBUSTION PRACTICES	0.0001	LB/HP-H		0.4	LB/H		0.0001	LB/HP-H		
NV-0050	MGM MIRAGE																	

Table D-D-5
Particulate Matter, 10 Microns (PM₁₀) RBL Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBL CID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
OK-0118	HUGO GENERATING STA	2/9/2007	EMERGENCY DIESEL INTERNAL COMBUSTION ENGINES					USE OF LOW SULFUR NO.2 FUEL OIL COMBINED WITH GOOD COMBUSTION PRACTICES AND LIMITED ANNUAL OPERATION	0		SEE NOTE	0			0		
OK-0128	MID AMERICAN STEEL ROLLING MILL	9/8/2008	Emergency Generator	No. 2 diesel	1200	HP			0.84	LB/H		0.21	T/YR		0.32	G/HP-H	
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	EMERGENCY DIESEL GENERATOR (2200 HP)	LOW SULFUR DIESEL	2200	HP			0.72	LB/H		0.2	G/KW-H	NSPS	0		
PA-0271	MERCK & CO. WESTPOINT	2/23/2007	MOBILE EMERGENCY GENERATOR	DIESEL					0.16	G/HP-H		0.2	T/YR		0		
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T	10/10/2012	Emergency Generator	Diesel	0		The emergency generator will be restricted to operate not more than 100 hr/yr.		0.02	G/HP-H		0.06	LB/H		0		
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Generator	ULSD Fuel oil # 2	0		Emergency Generator is rated at 670 BHP and is limited to 500 hr per year (emergency and testing and maintenance, combined)		0.15	G/HP-H		0.22	LB/H		0		
SC-0114	GP ALLENDALE LP	11/25/2008	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.		0.2	LB/H		0.05	T/YR		0.06	G/HP-H	
SC-0115	GP CLARENDON LP	2/10/2009	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES. THE DIESEL EMERGENCY GENERATOR IS LIMITED TO 500 HOURS OF OPERATION PER YEAR.	TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.	0.2	LB/H		0.05	T/YR		0.06	G/HP-H	
*TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	4/1/2015	Emergency Diesel Generator	Diesel	1500	hp	The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500 horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides (NOx) is the use of a 40 Code Federal Rules (CFR) Part 99 Tier 2 engine and limited hours of operation. Emissions from the engine shall not exceed 0.0218 grams per horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52 hours per year of non-emergency operation. Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide (CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra- low sulfur diesel). The engine is limited to 52 hours per year of non-emergency operation. Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engine and 40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines.	Minimized hours of operations Tier II engine	0.15	LB/H		0.01	T/YR		0		

Table D-D-6
Particulate Matter, 2.5 Microns (PM_{2.5}) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	Black Start and Emergency Internal Combustion Engines	Diesel	1500	kWe	Two (2) 600 kWe black start diesel generators and four (4) 1,500 kWe emergency diesel generators.	Clean Fuel and Good Combustion Practices	0.25	G/KW-HR	3-HOUR AVERAGE	0			0		
*AL-0318	TALLADEGA SAWMILL	12/18/2017	250 Hp Emergency C1, Diesel-fired RICE	Diesel	0		Emergency Only		0			0			0		
IN-0263	MIDWEST FERTILIZER COMPANY LLC	3/23/2017	EMERGENCY GENERATORS (EU014A AND EU-014B)	DISTILLATE OIL	3600	HP EACH		GOOD COMBUSTION PRACTICES	0.15	G/HP-H EACH	3 HOUR AVERAGE	500	H/YR EACH		0		
LA-0292	HOLBROOK COMPRESSOR STATION	1/22/2016	Emergency Generators No. 1 & No. 2	Diesel	1341	HP		Use of a certified engine, low sulfur diesel, and limiting non-emergency use to no more than 100 hours per year	0.44	LB/HR	HOURLY MAXIMUM	0.02	TPY	ANNUAL MAXIMUM	0.15	G/BHP-HR	
LA-0305	LAKE CHARLES METHANOL FACILITY	6/30/2016	Diesel Engines (Emergency)	Diesel	4023	hp		Complying with 40 CFR 60 Subpart IIII	0			0			0		
*LA-0312	ST. JAMES METHANOL PLANT	6/30/2017	DEG1-13 - Diesel Fired Emergency Generator Engine (EQT0012)	Diesel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII	0.08	LB/HR		0			0		
LA-0313	ST. CHARLES POWER STATION	8/31/2016	SCPS Emergency Diesel Generator 1	Diesel	2584	HP		Compliance with NESHAP 40 CFR 63 Subpart ZZZZ and NSPS 40 CFR 60 Subpart IIII, and good combustion practices (use of ultra-low sulfur diesel fuel).	0.86	LB/H	HOURLY MAXIMUM	0.21	T/YR	ANNUAL MAXIMUM	0		
LA-0316	CAMERON LNG FACILITY	2/17/2017	emergency generator engines (6 units)	diesel	3353	hp		Complying with 40 CFR 60 Subpart IIII	0			0			0		
LA-0317	METHANEX - GEISMAR METHANOL PLANT	12/22/2016	Emergency Generator Engines (4 units)	Diesel	0		I-GDE-1201, II-GDE-1201 = 2346 hp I-GDE-1202 = 755 hp I-GDE-1203 = 1193 hp	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	0			0			0		
MI-0421	GRAYLING PARTICLEBOARD	8/26/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in FGRICE).	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	1.41	LB/H	TEST PROTOCOL WILL SPECIFY AVG TIME	0			0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUEMENGINE (Diesel fuel emergency engine)	Diesel Fuel	22.68	MMBTU/H	a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted to 4 hours/day, except during emergency conditions and stack testing, and 500 hours/year on a 12-month rolling time period basis.	Good combustion practices.	1.58	LB/H	HOURLY	0			0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUPENGINE (Emergency engine-diesel fire pump) (EUEMRGRICE1 in FGRICE)	Diesel	1.66	MMBTU/H	A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Powers a fire pump used for a back up during an emergency (EUPENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100 hours/year on a 12-month rolling time period basis.	Good combustion practices	0.57	LB/H	HOURLY	0			0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	Emergency diesel generator engine	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE1 in FGRICE).	Certified engines, good design, operation and combustion practices. Operational restrictions/limited use.	0.66	LB/H	TEST PROTOCOL SHALL SPECIFY	0			0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	EUEMRGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE2 in FGRICE).	Certified engines. Good design, operation and combustion practices. Operational restrictions/limited use.	0.22	LB/H	TEST PROTOCOL SHALL SPECIFY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (North Plant) Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.52	LB/H	HOURLY	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (South Plant) Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Diesel particulate filter, good combustion practices and meeting NSPS Subpart IIII requirements.	0.52	LB/H	HOURLY	0			0		
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	EUEMENGINE: Emergency engine	Diesel	2	MW	A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to NSPS IIII.	State of the art combustion design.	1.18	LB/H	HOURLY	0			0		
NJ-0084	PSEG FOSSIL LLC SEWAREN GENERATING STATION	3/10/2016	Diesel Fired Emergency Generator	ULSD	44	H/YR		use of ULSD a clean burning fuel, and limited hours of operation	0.26	LB/H		0			0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL	0			Ultra Low Sulfur Diesel/Fuel (15 ppm max)	0.4	G/KR	PER HR	0.7	T/YR	12 MO ROLLING TOTAL	0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	PROPANE-FIRED EMERGENCY GENERATORS 150 kW (2)	PROPANE	0			Low sulfur fuel and good combustion practices	0.019	G/HP-H	PER HR	0			0		
AK-0071	INTERNATIONAL STATION POWER PLANT	12/20/2010	Caterpillar 3215C Black Start Generator (1)	ULSD	1500	KW-c		Good Combustion Practices	0.03	G/HP-H	INSTANTANEOUS	0			0		
AK-0076	POINT THOMSON PRODUCTION FACILITY	8/20/2012	Combustion of Diesel by ICes	ULSD	1750	kW	Diesel-fired generators		0.2	G/KW-H		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Emergency Camp Generators	Ultra Low Sulfur Diesel	2695	hp	Three 2,695 hp ULSD-fired Standby Camp Generator Engines.		0.15	G/HP-H		0			0		

Table D-D-6
Particulate Matter, 2.5 Microns (PM_{2.5}) RBL Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Bulk Tank Generator Engines	Ultra Low Sulfur Diesel	891	hp	Two ULSD-fired 891 hp Bulk Tank Storage Area Generator Engines		0.15	G/HP-H		0			0		
CA-1191	VICTORVILLE 2 HYBRID POWER PROJECT	3/11/2010	EMERGENCY ENGINE	DIESEL	2000	KW	2000 KW (2,683 hp) engine	OPERATIONAL RESTRICTION OF 50 HR/YR; USE OF ULTRA LOW SULFUR FUEL NOT TO EXCEED 15 PPMVD	0.2	G/KW-H		0.15	G/HP-H		0		
CA-1212	PALMDALE HYBRID POWER PROJECT	10/18/2011	EMERGENCY IC ENGINE	DIESEL	2683	HP	UNIT IS 2000 KW.	USE ULTRA LOW SULFUR FUEL	0.2	G/KW-H		0.15	G/HP-H		0		
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - Development Driller 1	Diesel	2229	hp		Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	0.03	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - C. R. Luigs	diesel	2064	hp	Caterpillar D3516A 1998	Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	0.02	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		
*FL-0347	ANADARKO PETROLEUM CORPORATION - EGOM	9/16/2014	Main Propulsion Generator Diesel Engines	Diesel	9910	hp	Four 1998 Wartsila 18V32LNE 9910 hp and Two 1998 Wartsila 12V32LNE 6610 hp	Use of good combustion practices based on the most recent manufacturer's specifications issued for engines and with turbocharger, aftercooler, and high injection pressure	0.24	G/KW-H	ROLLING 24 HOUR AVERAGE	0			0		
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012	Emergency Generator	diesel fuel	142	GAL/H	rated @ 2,000 KW	good combustion practices	0.2	G/KW-H	AVERAGE OF 3 STACK TEST RUNS	0.22	T/YR	ROLLING 12 MONTH TOTAL	0		
*IA-0106	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN COMPLEX	7/12/2013	Emergency Generators	diesel fuel	180	GAL/H	There are two (2) identically sized generators.	good combustion practices	0.2	G/KW-H	AVERAGE OF THREE (3) STACK TEST RUNS	0.02	T/YR	ROLLING TWELVE (12) MONTH TOTAL	0		
*IL-0114	CRONUS CHEMICALS, LLC	9/5/2014	Emergency Generator	distillate fuel oil	3755	HP		Tier IV standards for non-road engines at 40 CFR 1039.102, Table 7.	0.1	G/KW-H		0			0		
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	12/3/2012	EMERGENCY DIESEL GENERATORS	DIESEL	1006	HP EACH	THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND EG02, EXHAUST THROUGH TWO (2) VENTS.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	3 HOURS	500 N	HOURS OF OPERATIO N	YEARLY	0		
*IN-0158	ST. JOSEPH ENERGY CENTER, LLC	12/3/2012	EMERGENCY DIESEL GENERATOR	DIESEL	2012	HP	THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1) VENT.	COMBUSTION DESIGN CONTROLS AND USAGE LIMITS	0.15	G/HP-H	3 HOURS	500 N	HOURS OF OPERATIO N	YEARLY	0		
*IN-0166	INDIANA GASIFICATION, LLC	6/27/2012	TWO (2) EMERGENCY GENERATORS	DIESEL	1341	EACH	HORSEPOWER, IDENTIFIED AS EU-009A AND EU-009B	USE OF LOW-S DIESEL	15	PPM SULFUR		0			0		
*IN-0173	MIDWEST FERTILIZER CORPORATION	6/4/2014	EMERGENCY GENERATOR DIESEL-FIRED	NO. 2, DIESEL	3600	BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE	0			0		
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	EMERGENCY GENERATOR DIESEL-FIRED	NO. 2 FUEL OIL	4690	B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	0.15	LB/HP-H	3-HR AVERAGE	0			0		
*IN-0180	MIDWEST FERTILIZER CORPORATION	6/4/2014	EMERGENCY GENERATOR DIESEL-FIRED	NO. 2, DIESEL	3600	BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	0.15	G/HP-H	3-HR AVERAGE	0			0		
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	8/16/2011	EMERGENCY GENERATOR	DIESEL	1250	HP		ULTRA LOW SULFUR DIESEL AND GOOD COMBUSTION PRACTICES	0.15	G/HP-H	ANNUAL AVERAGE	0			0.15	G/HP-H	ANNUAL AVERAGE
*LA-0272	AMMONIA PRODUCTION FACILITY	3/27/2013	EMERGENCY DIESEL GENERATOR (2205-B)	DIESEL	1200	HP	OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/YR.	Compliance with 40 CFR 60 Subpart IIII; good combustion practices.	0			0			0.2	G/KW-HR	
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	1/30/2014	Emergency Engine/Generator	ULSD	7.4	MMBtu/hr	8%w= 300 hours of operation per 12-month rolling period S in ULSD: 8%w=0.0015% by weight		0.15	G/HP-H	1 HR BLOCK AVERAGE	0.36	LB/H	1 HR BLOCK AVERAGE	0		
*MD-0042	WILDCAT POINT GENERATION FACILITY	4/8/2014	EMERGENCY GENERATOR 1	ULTRA LOW SULFU DIESEL	2250	KW	40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES, LIMITED HOURS OF OPERATION, AND DESIGNED TO ACHIEVE EMISSION LIMITS	0.15	G/HP-H		0.23	G/KW-H		0		
*MD-0044	COVE POINT LNG TERMINAL	6/9/2014	EMERGENCY GENERATOR	ULTRA LOW SULFUR DIESEL	1550	HP	40 CFR 60, SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	EXCLUSIVE USE OF ULSD FUEL, GOOD COMBUSTION PRACTICES AND DESIGNED TO ACHIEVE EMISSION LIMITS	0.17	G/HP-H		0.23	G/KW-H		0		
*MI-0400	WOLVERINE POWER	6/29/2011	Turbine generator (EUBLACKSTAR T)	Diesel	540	MMBTU/H	This is a turbine generator identified in the permit as EUBLACKSTAR. It has a throughput capacity of 540MMBTU/HR which equates to 102 MW. The maximum operation was based on 500 hours per year.		16.2	LB/H	TEST PROTOCOL	0			0		
*MI-0400	WOLVERINE POWER	6/29/2011	Emergency generator	Diesel	4000	HP	Maximum operation was based on 500 hours per year.		1.76	LB/H	TEST PROTOCOL; BACT	0			0		
NJ-0079	WOODBRIDGE ENERGY CENTER	7/25/2012	Emergency Generator	Ultra Low Sulfur distillate Diesel	100	H/YR	The Emergency Generator will use Ultra Low Sulfur distillate (ULSD) Diesel with 15 ppm % Sulfur by weight only	Use of ULSD oil	0.13	LB/H		0			0		
NJ-0080	HESS NEWARK ENERGY CENTER	11/1/2012	Emergency Generator	ULSD	200	H/YR		use of ULSD, a low sulfur clean fuel	0			0			0		

Table D-D-6
Particulate Matter, 2.5 Microns (PM_{2.5}) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
NY-0101	CORNELL COMBINED HEAT & POWER PROJECT	3/12/2008	EMERGENCY DIESEL GENERATORS (2)	LOW SULFUR DIESEL	1000	KW	TWO (2) GENERATORS LIMITED TO 800 HOURS FOR BOTH ANNUALLY	ULTRA LOW SULFUR DIESEL AT 15 PPM S	0.19	LB/H	1 HOUR AVG	20	% OPACITY		0.086	G/KW-H	
PA-0278	MOXIE LIBERTY LLC/ASYLUM POWER PL T	10/10/2012	Emergency Generator	Diesel	0		The emergency generator will be restricted to operate not more than 100 hr/yr.		0.02	G/HP-H		0.06	LB/H		0		
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Generator	ULSD Fuel oil # 2	0		Emergency Generator is rated at 670 BHP and is limited to 500 hr per year (emergency and testing and maintenance, combined)		0.15	G/HP-H		0.22	LB/H		0		
*TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	4/1/2015	Emergency Diesel Generator	Diesel	1500	hp	The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500 horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides (NOx) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited hours of operation. Emissions from the engine shall not exceed 0.0218 grams per horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52 hours per year of non-emergency operation. Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide (CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra- low sulfur diesel). The engine is limited to 52 hours per year of non-emergency operation. Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engine and 40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines.	Minimized hours of operations Tier II engine	0.15	LB/H		0.01	T/YR		0		
*WV-0025	MOUNDSVILLE COMBINED CYCLE POWER PLANT	11/21/2014	Emergency Generator	Diesel	2015.7	HP	Nominal 1,500 kW. Limited to 100 hours/year.		0			0			0.15	G/HP-HR	

Table D-D-7
Sulfur Dioxide (SO₂) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
FL-0356	OKEECHOBEE CLEAN ENERGY CENTER	3/9/2016	Three 3300-kW ULSD emergency generators	ULSD		0	BACT limits equal to NSPS Subpart IIII limits. Will use IIII certified engine.	Use of ULSD	0.0015	% S IN ULSD			0			0	
*FL-0363	DANIA BEACH ENERGY CENTER	12/4/2017	Two 3300 kW emergency generators	ULSD		0	Two ULSD-fueled emergency engines. BACT = Subpart IIII limits.	Clean fuel	15	PPM S IN FUEL			0			0	
LA-0305	LAKE CHARLES METHANOL FACILITY	6/30/2016	Diesel Engines (Emergency)	Diesel		4023	hp	Complying with 40 CFR 60 Subpart IIII	0				0			0	
MI-0423	INDECK NILES, LLC	1/4/2017	EUEMENGINE (Diesel fuel emergency engine)	Diesel Fuel		22.68	MMBTU/H	Good combustion practices and meeting NSPS Subpart IIII requirements.	15	PPM	FUEL SUPPLIER CERTIFICATION RECORDS		0			0	
MI-0423	INDECK NILES, LLC	1/4/2017	EUPENGINE (Emergency engine--diesel fire pump)	Diesel		1.66	MMBTU/H	Good combustion practices and meeting NSPS Subpart IIII requirements.	15	PPM	FUEL SUP. CERT. RECORDS OR SAMPLE TEST		0			0	
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (North Plant): Emergency Engine	Diesel		1341	HP	Good combustion practices and meeting NSPS Subpart IIII requirements.	15	PPM	FUEL SUPPLIER CERTIF. RECORDS		0			0	
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (South Plant): Emergency Engine	Diesel		1341	HP	Good combustion practices and meeting NSPS Subpart IIII requirements.	15	PPM	FUEL SUPPLIER RECORDS OR SMPL TEST DATA		0			0	
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL		0		Ultra Low Sulfur Diesel/Fuel (15 ppm max)	0.0015	LB/MMBTU			0			0	
AL-0251	HILLABEE ENERGY CENTER	9/24/2008	EMERGENCY GENERATOR	DIESEL		600	EW	LOW SULFUR DIESEL FUEL	0				0			0	
FL-0310	SHADY HILLS GENERATING STATION	1/12/2009	2.5 MW EMERGENCY GENERATOR	ULTRA LOW S OIL		2.5	MW	FIRING ULTRA LOW SULFUR OIL WITH A MAXIMUM HOURS OF OPERATION OF 500 HRS/YR.	0.0015	% SULFUR	NA/RECORDKEEPING		0			0	
FL-0332	HIGHLANDS BIOREFINERY AND COGENERATION PLANT	9/23/2011	2000 KW Emergency Equipment			0	One emergency generator rated at 2,000 kW (2,682 HP) will be installed to provide backup electrical power in the event of a power outage at the HEF facility. The generator will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation during emergencies. The unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPA60% emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2006 or later.	See Pollutant Notes.	0.0015	% SULFUR			0			0	
FL-0332	HIGHLANDS BIOREFINERY AND COGENERATION PLANT	9/23/2011	600 HP Emergency Equipment	Ultra-Low Sulfur Oil		0	One 600 hp diesel fire pump engine will be installed to provide firewater during power outages. This unit will fire ULSD fuel oil or natural gas and will be limited to 500 hours per year of operation. This unit will be operated no more than 100 hours per year for testing and maintenance purposes per 40 CFR 60, Subpart IIII. The engine will be designed to meet US EPA60% emission standards listed in 40 CFR Part 60 Subpart IIII for model year 2009 or later.	See Pollutant Notes.	0.0015	% SULFUR			0			0	
*FL-0346	LAUDERDALE PLANT	4/22/2014	Four 3100 kW black start emergency generators	ULSD		2.32	MMBtu/hr (HHV) per engine	ULSD required	15	PPM SULFUR IN FUEL			0			0	
*FL-0346	LAUDERDALE PLANT	4/22/2014	Emergency fire pump engine (300 HP)	USLD		29	MMBtu/hr	Good combustion practice and ULSD	15	PPM SULFUR IN FUEL			0			0	
IA-0088	ADM CORN PROCESSING - CEDAR RAPIDS	6/29/2007	EMERGENCY GENERATOR	DIESEL		1500	KW	BURN LOW-SULFUR DIESEL FUEL. 0.05% BY WEIGHT OR LESS NOT TO EXCEED THE NSPS REQUIREMENT.	0.17	G/B-HP-H	AVERAGE OF 3 TEST RUNS		360	T/YR	12-MONTH ROLLING TOTAL	0	
IA-0095	TATE & LYLE INGREDIENTS AMERICAS, INC.	9/19/2008	EMERGENCY GENERATOR	DIESEL		700	KW	FUEL SULFUR LIMIT	0.23	G/KW-HR	AVERAGE OF THREE STACK TEST RUNS		0.09	T/YR	12-MONTH ROLLING TOTAL	0	
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	TWO (2) EMERGENCY DIESEL GENERATORS	DIESEL		1006	HP EACH	ULTRA LOW SULFUR DISTILLATE AND USAGE LIMITS	0.012	LB/H			500	N	HOURS OF OPERATIO N	YEARLY	0
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	EMERGENCY DIESEL GENERATOR	DIESEL		2012	HP	ULTRA LOW SULFUR DISTILLATE AND USAGE LIMITS	0.024	LB/H	3 HOURS		500	N	HOURS OF OPERATIO N	YEARLY	0
*IN-0166	INDIANA GASIFICATION, LLC	6/27/2012	TWO (2) EMERGENCY GENERATORS	DIESEL		1341	HORSEPOWER, EACH	USE OF LOW-S DIESEL AND LIMITED HOURS OF NON- EMERGENCY OPERATION	15	PPM SULFUR IN FUEL			0			0	
KS-0028	NEARMAN CREEK POWER STATION	10/18/2005	EMERGENCY BLACK START GENERATOR	NO. 2 FUEL OIL		24.1	MMBTU/H	GOOD COMBUSTION CONTROL	1.2	LB/H	FULL LOAD OPERATIONS		0			0	
LA-0211	GARYVILLE REFINERY	12/27/2006	EMERGENCY GENERATORS (DOCK & TANK FARM) (21-08 & 22-08)	DIESEL		1341	HP		0.02	LB/H			0.0068	G/HP-H		0	
LA-0231	LAKE CHARLES GASIFICATION FACILITY	6/22/2009	EMERGENCY DIESEL POWER GENERATOR ENGINES (2)	DIESEL		1341	HP EACH	COMPLY WITH 40 CFR 60 SUBPART IIII	0.01	LB/H	MAXIMUM (EACH)		0.0034	G/HP-H		0	

Table D-D-7
Sulfur Dioxide (SO₂) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	1/30/2014	Emergency Engine/Generator	ULSD	7.4	MMBtu/hr	4%± 300 hours of operation per 12-month rolling period S in ULSD: 4%±0.0015% by weight		0.011	LB/H	1 HR BLOCK AVG INCLUDING SS	0			0		
*MD-0042	WILDCAT POINT GENERATION FACILITY	4/8/2014	EMERGENCY GENERATOR 1	ULTRA LOW SULFU DIESEL	2250	KW	40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	USE OF ULTRA-LOW DIESEL SULFUR FUEL, LIMITED HOURS OF OPERATION AND DESIGNED TO MEET NSPS SUBPART IIII LIMITS	0.006	G/B-HP-H	3-HOUR BLOCK AVERAGE	0			0		
*MI-0400	WOLVERINE POWER	6/29/2011	Turbine generator (EUBLACKSTART)	Diesel	540	MMBTU/H	This is a turbine generator identified in the permit as EUBLACKSTART. It has a throughput capacity of 540MMBTU/HR which equates to 102 MW. The maximum operation was based on 500 hours per year.		0.011	LB/MMBTU	TEST PROTOCOL	0			0		
MN-0070	MINNESOTA STEEL INDUSTRIES, LLC	9/7/2007	EMERGENCY POWER GENERATION - DIESEL	DIESEL			(~500 HP, LARGE IC)	LIMITED HOURS, LIMITED SULFUR IN FUEL	0.05	% SULFUR	SULFUR BY WEIGHT IN FUEL	0			0		
MN-0071	FAIRBAULT ENERGY PARK	6/5/2007	EMERGENCY GENERATOR	NO. 2	1750	KW	THIS IS A 1750 KW GENERATOR THAT WAS INSTALLED IN PLACE OF THE 670 HP GENERATOR (LISTED AS A ‘‘ENGINE, LARGE, FUEL OIL.) IN MN-0053		0.0004	LB/HP-H	3 HOUR AVERAGE	0			0		
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Emergency generator	diesel	2250	KW	Emergency diesel fired generator restricted to 500 hours of operation per rolling 12- months.		0.03	LB/H		0.008	T/YR		0		
OK-0118	HUGO GENERATING STA	2/9/2007	EMERGENCY DIESEL INTERNAL COMBUSTION ENGINES					USE OF LOW SULFUR NO.2 FUEL OIL COMBINED WITH GOOD COMBUSTION PRACTICES AND LIMITED ANNUAL OPERATION	0		SEE NOTE	0			0		
OK-0128	MID AMERICAN STEEL ROLLING MILL	9/8/2008	Emergency Generator	No. 2 diesel	1200	HP		500 hours per year, 0.05% sulfur diesel fuel	0.49	LB/H		0.05	% SULFUR		0		
OK-0129	CHOUTEAU POWER PLANT	1/23/2009	EMERGENCY DIESEL GENERATOR (2200 HP)	SULFUR DIESEL	2200	HP		LOW SULFUR DIESEL 0.05%S	0.89	LB/H		0			0		
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Generator	ULSD Fuel oil # 2	0		Emergency Generator is rated at 670 BHP and is limited to 500 hr per year (emergency and testing and maintenance, combined)		0.006	LB/H		0			0		
SC-0113	PYRAMAX CERAMICS, LLC	2/8/2012	EMERGENCY GENERATORS 1 THRU 8	DIESEL	757	HP	THE CONSTRUCTION PERMIT AUTHORIZES THE CONSTRUCTION OF EIGHT (8) IDENTICAL EMERGENCY GENERATORS. THIS PROCESS AND POLLUTANT INFORMATION IS FOR ONE SINGLE EMERGENCT GENERATOR.	USE OF LOW SULFUR FUEL DIESEL, SULFUR CONTENT LESS THAN 0.0015 PERCENT. OPERATING HOURS LESS THAN 100 HOURS PER YEAR FOR MAINTENACE AND TESTING.	0			0		0			
SC-0114	GP ALLENDALE LP	11/25/2008	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.		5.4	LB/H		1.35	T/YR		0		
SC-0115	GP CLARENDON LP	2/10/2009	DIESEL EMERGENCY GENERATOR	DIESEL	1400	HP	THE EMERGENCY GENERATOR IS OPERATED INTERMITTENTLY FOR TESTING OR EMERGENCY PURPOSES.	TUNE-UPS AND INSPECTIONS WILL BE PERFORMED AS OUTLINED IN THE GOOD MANAGEMENT PRACTICE PLAN.	5.4	LB/H		1.35	T/YR		0		
*SC-0132	ARGOS HARLEYVILLE PLANT	12/14/2007	EMERGENCY GENERATOR	DIESEL	1000	KW			0			0			0		
*TX-0671	PROJECT JUMBO	12/1/2014	Engines	ultra low sulfur diesel fuel	0		Two emergency diesel fired generators proposed. Each engine will be 4000 kW. Ultra low sulfur fuel is burned in the engines to meet the sulfur requirement of 15 ppm in 40CFR80.510(b). Each emergency engine is being permitted for maintenance and testing for maximum 100 hrs/yr. They are not being permitted for the actual emergency emissions	Ultra low sulfur fuel engines burn will meet the sulfur requirement of 15 ppm in 40CFR80.510(b)	0.0649	G/KW-HR		0.01	T/YR		0		
*TX-0728	PEONY CHEMICAL MANUFACTURING FACILITY	4/1/2015	Emergency Diesel Generator	Diesel	1500	hp	The emergency generator (EPN 17-1-4) at the site is diesel fired and rated at 1500 horsepower (hp). Lowest Achievable Emission Rates (LAER) for nitrogen oxides (NOx) is the use of a 40 Code Federal Rules (CFR) Part 89 Tier 2 engine and limited hours of operation. Emissions from the engine shall not exceed 0.0218 grams per horsepower-hour (g/hp-hr) of nitrogen oxides (NOx). The engine is limited to 52 hours per year of non-emergency operation. Emissions from the engine shall not exceed 0.01256 g/hp hr of carbon monoxide (CO). The fuel for the engine is limited to 15 parts per million sulfur by weight (ultra- low sulfur diesel). The engine is limited to 52 hours per year of non-emergency operation. Also applicable: 40CFR60 IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engine and 40CFR63 ZZZZ, National Emissions Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines.	Low sulfur fuel 15 ppmw	0.61	LB/H		0.02	T/YR		0		
WA-0328	BP CHERRY POINT COGENERATION PROJECT	1/11/2005	EMERGENCY GENERATOR	DIESEL FUEL	1.5	MW		FUEL MUST SATISFY REQUIREMENTS OF ON-ROAD DIESEL SPECIFICATIONS AT TIME OF FUEL PURCHASE	0			0			0		*SEE NOTES
*WY-0070	CHEYENNE PRAIRIE GENERATING STATION	8/28/2012	Diesel Emergency Generator (EP15)	Ultra Low Sulfur Diesel	839	hp		Ultra Low Sulfur Diesel	0			0			0		

Table D-D-8
Sulfuric Acid Mist (H₂SO₄) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARAD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	EUEMENGINE: Emergency engine	Diesel		2 MW	A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to NSPS IIII.	Good combustion practices, low sulfur fuel.	15	PPM	FUEL SUPPLIER RECORDS OR TEST DATA	0			0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL	3000 kW			Ultra Low Sulfur Diesel/Fuel (15 ppm max)	0.0001	LB/MMBTU		0			0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	PROPANE-FIRED EMERGENCY GENERATORS 150 kW (2)	PROPANE	3000 kW			use of low sulfur fuel	0.0001	LB/MMBTU		0			0		
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	1/30/2014	Emergency Engine/Generator	ULSD	750 KW	MMBtu/hr	81%± 300 hours of operation per 12-month rolling period S in ULSD: 81%±0.0015% by weight	Use of low sulfur fuel	0.0009	LB/H	1 HR BLOCK AVERAGE	0			0		
*MD-0042	WILDCAT POINT GENERATION FACILITY	4/8/2014	EMERGENCY GENERATOR 1	ULTRA LOW SULFU DIESEL	2250 KW		40 CFR 60 SUBPART IIII, ULTRA LOW-SULFUR DIESEL FUEL, GOOD COMBUSTION PRACTICES	USE OF ULTRA-LOW DIESEL SULFUR FUEL, LIMITED HOURS OF OPERATION AND DESIGNED TO MEET SUBPART IIII LIMITS	0.006	G/HP-H	3-HOUR BLOCK AVERAGE	0			0		
NY-0101	CORNELL COMBINED HEAT & POWER PROJECT	3/12/2008	EMERGENCY DIESEL GENERATORS (2)	LOW SULFUR DIESEL	1000 KW		TWO (2) GENERATORS LIMITED TO 800 HOURS FOR BOTH ANNUALLY	ULTRA LOW SULFUR DIESEL AT 15 PPM S	0.002	LB/H	MASS BALANCE	0.0009	G/HP-H		0		

**Table D-D-9
Greenhouse Gases (GHG) RBLC Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project**

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*AK-0084	DONLIN GOLD PROJECT	6/30/2017	Black Start and Emergency Internal Combustion Engines	Diesel	1500	kWe	Two (2) 600 kWe black start diesel generators and four (4) 1,500 kWe emergency diesel generators.	Good Combustion Practices	2781	TPY	YEARLY	0			0		
IN-0263	MIDWEST FERTILIZER COMPANY LLC	03/23/2017 ACT	EMERGENCY GENERATORS (EU014A AND EU-014B)	DISTILLATE OIL	3600	HP EACH		GOOD COMBUSTION PRACTICES	1044	TON/12 CONSEC. MONTH	EACH	500	H/YR EACH		0		
LA-0292	HOLBROOK COMPRESSOR STATION	1/22/2016	Emergency Generators No. 1 & No. 2	Diesel	1341	HP			77	TPY	ANNUAL MAXIMUM	0			0		
LA-0305	LAKE CHARLES METHANOL FACILITY	6/30/2016	Diesel Engines (Emergency)	Diesel	4023	hp		Complying with 40 CFR 60 Subpart IIII	0			0			0		
*LA-0312	ST. JAMES METHANOL PLANT	6/30/2017	DEG1-13 - Diesel Fired Emergency Generator Engine (EQT0012)	Diesel	1474	horsepower	Operating hours limit: 100 hr/yr.	Compliance with NSPS Subpart IIII	84	TPY		0			0		
LA-0313	ST. CHARLES POWER STATION	8/31/2016	SCPS Emergency Diesel Generator 1	Diesel	2584	HP		Good combustion practices	0			0			0		
LA-0316	CAMERON LNG FACILITY	2/17/2017	emergency generator engines (6 units)	diesel	3353	hp		good combustion practices	0			0			0		
LA-0317	METHANEX - GEISMAR METHANOL PLANT	12/22/2016	Emergency Generator Engines (4 units)	Diesel	0		I-GDE-1201, II-GDE-1201 = 2346 hp I-GDE-1202 = 755 hp I-GDE-1203 = 1193 hp	complying with 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ	0			0			0		
MI-0421	GRAYLING PARTICLEBOARD	8/26/2016	Emergency Diesel Generator Engine (EUEMRGRICE in FGRICE)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1600 kW (EUEMRGRICE in FGRICE).	Good combustion and design practices.	223	T/YR	BASED UPON A 12-MO ROLLING TIME PERIOD	0			0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUEMENGINE (Diesel fuel emergency engine)	Diesel Fuel	22.68	MMBTU/H	a 2,922 horsepower (HP) (2,179 kilowatts (kW)) diesel fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Restricted to 4 hours/day, except during emergency conditions and stack testing, and 500 hours/year on a 12-month rolling time period basis.	Good combustion practices	928	T/YR	12-MO. ROLLING TIME PERIOD	0			0		
MI-0423	INDECK NILES, LLC	1/4/2017	EUPENGINE (Emergency engine--diesel fire pump)	Diesel	1.66	MMBTU/H	A 260 brake horsepower (bhp) diesel-fueled emergency engine manufactured in 2011 or later and a displacement of <10 liters/cylinder. Powers a fire pump used for a back up during an emergency (EUPENGINE). Restricted to 1 hour/day, except during emergency conditions and stack testing, and 100 hours/year on a 12-month rolling time period basis.	Good combustion practices	13.58	T/YR	12 MO. ROLLING TIME PERIOD	0			0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	EUEMRGRICE1 in FGRICE (Emergency diesel generator engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE1 in FGRICE).	Good combustion and design practices.	209	T/YR	12-MO ROLLING TIME PERIOD	0			0		
MI-0425	GRAYLING PARTICLEBOARD	5/9/2017	EUEMRGRICE2 in FGRICE (Emergency Diesel Generator Engine)	Diesel	500	H/YR	One emergency diesel generator engine rated at 1500 KW (EUEMRGRICE2 in FGRICE).	Good combustion and design practices.	70	T/YR	12-MO ROLLING TIME PERIOD	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (North Plant): Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Good combustion practices.	383	T/YR	12-MO. ROLLING TIME PERIOD	0			0		
*MI-0433	MEC NORTH, LLC AND MEC SOUTH LLC	6/29/2018	EUEMENGINE (South Plant): Emergency Engine	Diesel	1341	HP	A 1,341 HP (1,000 kilowatts (kW)) diesel-fired emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is designed to be compliant with Tier IV emission standards. Equipped with a diesel particulate filter.	Good combustion practices.	383	T/YR	12-MO ROLLING TIME PERIOD	0			0		
*MI-0435	BELLE RIVER COMBINED CYCLE POWER PLANT	7/16/2018	EUEMENGINE: Emergency engine	Diesel	2	MW	A nominal 2 MW diesel-fueled emergency engine with a model year of 2011 or later, and a displacement of <10 liters/cylinder. The engine is an EPA Tier 2 certified engine subject to NSPS IIII.	Energy efficient design.	161	T/YR	12-MO ROLLING TIME PERIOD	0			0		
TX-0799	BEAUMONT TERMINAL	6/8/2016	EMERGENCY ENGINES	diesel	0			Equipment specifications and good combustion practices. Operation limited to 100 hours per year.	6.79	T/YR		0			0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	DIESEL-FIRED EMERGENCY GENERATOR 3000 kW (1)	DIESEL FUEL	0			Good Combustion Practices/Maintenance	163.6	LB/MMBTU		1178	T/YR	12 MO ROLLING TOTAL	0		
*VA-0325	GREENSVILLE POWER STATION	6/17/2016	PROPANE-FIRED EMERGENCY GENERATORS 150 kW (2)	PROPANE	0			Good Combustion Practices/Maintenance	136.1	LB/MMBTU		121	T/YR	12 MO ROLLING AVG	0		
AK-0076	POINT THOMSON PRODUCTION FACILITY	8/20/2012	Combustion of Diesel by ICes	ULSD	1750	kW	Diesel-fired generators	Good Combustion Practices and 40 CFR 60 Subpart IIII requirements	0			0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Emergency Camp Generators	Ultra Low Sulfur Diesel	2695	hp	Three 2,695 hp ULSD-fired Standby Camp Generator Engines.		2332	T/YR	COMBINED	0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Airstrip Generator Engine	Ultra Low Sulfur Diesel	490	hp	One 490 hp Airstrip Generator Engine		163	T/YR		0			0		
*AK-0082	POINT THOMSON PRODUCTION FACILITY	1/23/2015	Bulk Tank Generator Engines	Ultra Low Sulfur Diesel	891	hp	Two ULSD-fired 891 hp Bulk Tank Storage Area Generator Engines		7194	T/YR	COMBINED	0			0		
*CO-0067	LANCASTER PLANT	6/4/2013	Emergency Generator	diesel	19950	gal per year	Kerr-McGee is proposing to install one 839 bhp diesel-fired emergency generator as part of this project. The generator will be limited to 500 hours of operation per year.	NSPS IIII compliant.	0			0			0		

**Table D-D-9
Greenhouse Gases (GHG) RBLC Search - Emergency Generator
Invenery, LLC - Allegheny County Energy Center Project**

RBLCD	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*FL-0328	ENI - HOLY CROSS DRILLING PROJECT	10/27/2011	Emergency Engine	Diesel		0	MAN D-2842 LE model engine	Use of good combustion practices, based on the current manufacturer's specifications for this engine	14.6	T/YR	12-MONTH ROLLING	0			0		
*FL-0328	ENI - HOLY CROSS DRILLING PROJECT	10/27/2011	Emergency Fire Pump Engine	Diesel		0	Detroit 8V-92 TA model engine	Use of good combustion practices, based on the current manufacturer's specifications for this engine	2.4	T/YR	12-MONTH ROLLING	0			0		
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - Development Driller 1	Diesel		2229 hp		Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	77.84	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		
*FL-0338	SAKE PROSPECT DRILLING PROJECT	5/30/2012	Emergency Generator Diesel Engine - C.R. Luigs	diesel		2064 hp	Caterpillar D3516A 1998	Use of good combustion practices based on the current manufacturer's specifications for these engines, use of low sulfur diesel fuel, positive crankcase ventilation, turbocharger with aftercooler, high pressure fuel injection with aftercooler	72.06	T/YR	PER YEAR 12 MONTH ROLLING TOTAL	0			0		
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012	Emergency Generator	diesel fuel		142 GAL/H	rated @ 2,000 KW	good combustion practices	788.5	T/YR	ROLLING 12 MONTH TOTAL	0			0		
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012	Emergency Generator	diesel fuel		142 GAL/H	rated @ 2,000 KW	good combustion practices	1.55	G/KW-H	AVERAGE OF 3 STACK TEST RUNS	0			0		
IA-0105	IOWA FERTILIZER COMPANY	10/26/2012	Emergency Generator	diesel fuel		142 GAL/H	rated @ 2,000 KW	good combustion practices	0.0001	G/KW-H	AVERAGE OF 3 STACK TEST RUNS	0			0		
*IA-0106	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN COMPLEX	7/12/2013	Emergency Generators	diesel fuel		180 GAL/H	There are two (2) identically sized generators.	good combustion practices	1.55	LB/KW-H	AVERAGE OF THREE (3) STACK TEST RUNS	0			0		
*IA-0106	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN COMPLEX	7/12/2013	Emergency Generators	diesel fuel		180 GAL/H	There are two (2) identically sized generators.	good combustion practices	0.0001	G/KW-H	AVERAGE OF THREE (3) STACK TEST RUNS	0			0		
*IA-0106	CF INDUSTRIES NITROGEN, LLC - PORT NEAL NITROGEN COMPLEX	7/12/2013	Emergency Generators	diesel fuel		180 GAL/H	There are two (2) identically sized generators.	good combustion practices	509	T/YR	ROLLING TWELVE (12) MONTH TOTAL	0			0		
*IL-0114	CRONUS CHEMICALS, LLC	9/5/2014	Emergency Generator TWO (2) EMERGENCY DIESEL GENERATORS	distillate fuel oil		3755 HP		Tier IV standards for non-road engines at 40 CFR 1039.102, Table 7.	432	T/YR	12 CONSECUTIVE MONTH PERIOD	0			0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	EMERGENCY DIESEL GENERATORS	DIESEL		1006 HP EACH	THE TWO INTERNAL COMBUSTION ENGINES, IDENTIFIED AS EG01 AND EG02, EXHAUST THROUGH TWO (2) VENTS.	GOOD ENGINEERING DESIGN AND FUEL EFFICIENT DESIGN	1186	T/YR	12 CONSECUTIVE MONTH PERIOD	0			0		
*IN-0158	ST. JOSEPH ENEGRY CENTER, LLC	12/3/2012	EMERGENCY DIESEL GENERATOR	DIESEL		2012 HP	THIS ONE (1) INTERNAL COMBUSTION ENGINE, IDENTIFIED AS EG03, EXHAUSTS THROUGH ONE (1) VENT.	GOOD ENGINEERING DESIGN AND FUEL EFFICIENT DESIGN POST COMBUSTION CARBON CAPTURE	1186	T/YR	12 CONSECUTIVE MONTH PERIOD	500	HOURS OF OPERATION	YEARLY	0		
*IN-0166	INDIANA GASIFICATION, LLC	6/27/2012	TWO (2) EMERGENCY GENERATORS	DIESEL		1341 HORSEPOWER, EACH	IDENTIFIED AS EU-009A AND EU-009B	USE OF GOOD ENGINEERING DESIGN AND EFFICIENT ENGINES MEETING APPLICABLE NSPS AND MACT STANDARDS	84	T/YR	TWELVE CONSECUTIVE MONTHS	0			0		
*IN-0173	MIDWEST FERTILIZER CORPORATION	6/4/2014	DIESEL FIRED EMERGENCY GENERATOR	NO. 2, DIESEL		3600 BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	526.39	G/HP-H	3-HR AVERAGE	0			0		
*IN-0179	OHIO VALLEY RESOURCES, LLC	9/25/2013	DIESEL FIRED EMERGENCY GENERATOR	NO. 2 FUEL OIL		4690 B-HP	ANNUAL HOURS OF OPERATION NOT TO EXCEED 200 HOURS.	GOOD COMBUSTION PRACTICES	526.39	G/HP-H	3-HR AVERAGE	0			0		
*IN-0180	MIDWEST FERTILIZER CORPORATION	6/4/2014	DIESEL FIRED EMERGENCY GENERATOR	NO. 2, DIESEL		3600 BHP	ANNUAL OPERATING HOURS SHALL NOT EXCEED 500 HOURS. INSIGNIFICANT ACTIVITY WILL NOT BE TESTED.	GOOD COMBUSTION PRACTICES	526.39	G/HP-H	3-HR AVERAGE	0			0		
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	8/16/2011	EMERGENCY DIESEL GENERATOR	DIESEL		1250 HP		PROPER OPERATION AND GOOD COMBUSTION PRACTICES	0.0014	LB/MMBTU		0			0.0014	LB/MMBTU	
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	8/16/2011	EMERGENCY DIESEL GENERATOR	DIESEL		1250 HP		PROPER OPERATION AND GOOD COMBUSTION PRACTICES	163	LB/MMBTU		0			163	LB/MMBTU	
LA-0254	NINEMILE POINT ELECTRIC GENERATING PLANT	8/16/2011	EMERGENCY DIESEL GENERATOR	DIESEL		1250 HP		PROPER OPERATION AND GOOD COMBUSTION PRACTICES	0.0061	LB/MMBTU		0			0.0061	LB/MMBTU	
*LA-0272	AMMONIA PRODUCTION FACILITY	3/27/2013	EMERGENCY DIESEL GENERATOR (2205-B)	DIESEL		1200 HP	OPERATING TIME OF GENERATOR IS LIMITED TO 500 HR/YR.	ENERGY EFFICIENCY MEASURES	0			0			0		
*MA-0039	SALEM HARBOR STATION REDEVELOPMENT	1/30/2014	Emergency Engine/Generator	ULSD		7.4 MMBtu/hr	4%≥ 300 hours of operation per 12-month rolling period S in ULSD; 4%≤0.0015% by weight.		162.85	LB/MMBTU		0			0		
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Emergency fire pump engine	diesel		300 HP	223.8 kW. Emergency fire pump engine restricted to 500 hours of operation per rolling 12 months.		87	T/YR	PER ROLLING 12-MONTHS	0			0		
*OH-0352	OREGON CLEAN ENERGY CENTER	6/18/2013	Emergency generator	diesel		2250 KW	Emergency diesel fired generator restricted to 500 hours of operation per rolling 12-months.		878	T/YR	PER ROLLING 12-MONTHS	0			0		
*PA-0291	HICKORY RUN ENERGY STATION	4/23/2013	EMERGENCY GENERATOR	Ultra Low sulfur Distillate		7.8 MMBTU/H	EMERGENCY GENERATOR (1,135 BHP - 750 KW)		80.5	T/YR	12-MONTH ROLLING BASIS	0			0		

Table D-D-9
Greenhouse Gases (GHG) RBL Search - Emergency Generator
Invenergy, LLC - Allegheny County Energy Center Project

RBLCID	FACILITY NAME	PERMIT ISSUANCE DATE	PROCESS NAME	PRIMARY FUEL	THROUGHPUT	THROUGHPUT UNIT	PROCESS NOTES	CONTROL METHOD DESCRIPTION	EMISSION LIMIT 1	UNIT	AVG TIME CONDITION	EMISSION LIMIT 2	UNIT	AVG TIME CONDITION	STANDARD EMISSION LIMIT	UNIT	AVG TIME CONDITION
*PR-0009	ENERGY ANSWERS ARECIBO PUERTO RICO RENEWABLE ENERGY PROJECT	4/10/2014	Emergency Diesel Generator	ULSD Fuel oil # 2	0		Emergency Generator is rated at 670 BHP and is limited to 500 hr per year (emergency and testing and maintenance, combined)		183	T/YR		0			0		
*TX-0766	GOLDEN PASS LNG EXPORT TERMINAL MOUNDSVILLE	9/11/2015	Emergency Engine Generators	Diesel	750	hp	Six diesel engines at site.	Equipment specifications & work practices - Good combustion practices and limited operational hours	40	HR/YR		123	T/YR		0		
*WV-0025	COMBINED CYCLE POWER PLANT	11/21/2014	Emergency Generator	Diesel	2015.7	HP	Nominal 1,500 kW. Limited to 100 hours/year.		2416	LB/H		0			0		